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**Comments and Recommendations**  
**of**  
**The Board of Union Township Trustees**  
**Butler County, Ohio**  
**on the**  
**Proposed Plan for the Clean Up**  
**of the**  
**"Skinner Landfill Site**  
**West Chester, Ohio**

**9 June 1992**

Background: The various considerations and options for the proposed clean up of the Skinner Landfill have been a topic of community discussion for quite some time. A number of "Public Information" meetings have been held on the topic of the landfill and various proposals to "clean it up".

A number of organizations are involved in the effort each with their own unique role. The USEPA has the primary lead agency role, and has designated the site as a "USEPA Hazardous Waste Superfund Cleanup Site". The information exchange between these various agencies has been inconsistent ranging from "excellent" to "almost non-existent".

On 20 April 1992 the USEPA released a 24 page report (attached hereto as enclosure 1) outlining the history of the site, some considerations of the proposed cleanup effort, including 5 cleanup alternatives, and recommendations on how USEPA desires to proceed.

On 20 May 1992 USEPA conducted a "Public Hearing" at the Township building for the purpose of answering questions about the 24 page report; and receiving public comments on the recommendations contained therein.

Comments on the report of the Public Hearing will be received and considered by USEPA until 13 July 1992.

As a result of the Public Meeting held on 20 May 1992, the Township Administrator communicated to the Board of Trustees that a considerable number of questions still remained to be answered; and that by and large, regardless of the quality of the job being done, public confidence in the efforts underway by USEPA was lacking.

At the regular meeting of the Board of Union Township Trustees held on May 26, 1992 certain members of the public voiced those same general concerns. Additionally on 28 May 1992 Congressman John A. Boehner communicated similar concerns to USEPA in a letter (copy attached as enclosure 2).

The Board of Union Township Trustees directed the Township Administrator to meet with staff and compile a report that communicates specific items of inquiry to be directed to USEPA in conjunction with the cleanup of the Skinner Landfill. Further, the Board directed the Administrator to limit staff's comments to the "process" and the townships role in that process, and to "not attempt to evaluate the feasibilities of the various alternatives proposed by USEPA".

The Staff met shortly following the Trustee's meeting and discussed the material available to date. Additionally, information was provided to the staff concerning the background of the cleanup effort and "how we got to the point that we are today".

On 9 June 1992 in a Public Meeting, the Township Administrator presented his Staff Report to the Board of Union Township Trustees and presented the same in writing to the board.

After discussion by the Board, and recommendations by the Board for additional comments to be incorporated into the report, the Board of Union Township Trustees voted unanimously with two members present to adopt the Staff report, with changes as its "Comment and Recommendations on the Proposed Plan for the Clean Up of the Skinner Landfill Site West Chester, Ohio".

Those comments and recommendations follow:

### General Recommendations On the Process:

1. Not all of the questions posed to the USEPA Officials on 20 May 1992 were answered. Some of the questions were answered incompletely. It seemed that some USEPA officials who could have answered some of the questions were not present. With the exception of the person asking the questions, none of the public will ever know the answer to some of the questions unless some effort is made to publicly share the answers provided.

It is difficult to understand how anyone would be able to make informed and constructive comments on the various proposed alternatives until one knows the answers to a lot of the questions that were asked.

It is therefore recommended that USEPA provide answers to the questions that were asked on 20 May in the form of a supplemental report which could be disseminated to the public; and that following dissemination of that report after allowing a suitable time for analysis, another Community Meeting should be scheduled to allow further public comment. (A transcript of the meeting is provided as enclosure 3)

2. The published 24 page report contained a thorough analysis of only the one proposed cleanup option that is being recommended by USEPA. In order for informed public comment to be made; the thorough analysis of the other 4 cleanup options needs to be made available to the public.

3. The "process" of reaching actual cleanup is confusing. USEPA should publish a "Gant Chart" or a "Cleanup Time Table" containing the steps to be taken to achieve remediation showing the respective dates. Some effort needs to be made to communicate which of those dates are "hard" or "soft" (changeable or non-changeable).

4. The USATSDR (a "sister agency to USEPA) is conducting some type of health assessment pertaining to the site. This assessment is being done in conjunction with the Ohio Department of Health.

The efforts of USEPA and ATSDR do not appear to be "joint". It appears that USEPA is proceeding with its decision making process without the benefit of the input from ATSDR; and that ATSDR is engaged in an independent study that may have little or no utility to USEPA's remediation efforts. USEPA is proceeding without benefit of ATSDR's findings.

It is requested that both USEPA and ATSDR integrate their efforts to avoid duplication of efforts and to both benefit from each other's findings. It is requested that the USEPA delay decision on the selection of a cleanup alternative until such time as the ATSDR is available and incorporated into the decision making process.

5. Federal regulations seem to require USEPA to comply with all applicable state and local regulations that may apply to the method of cleanup selected. Some of these regulations deal with placement of equipment in proximity to residences, schools, places of assembly, etc ...

We recommend that all applicable state and local regulations be followed without waiver; and that when state and federal regulations are inconsistent with each other - that the stricter one apply.

Safety Issues: Safety is a primary concern of the staff. The following concerns express our concerns for safety related issues.

6. Once the cleanup effort begins; What will be required or expected from the local government regarding safety, security, and emergency services? What, if any of those services will be provided by USEPA?

7. What is expected of the local fire and EMS?

8. Will the clean up contractor have a response team on site?

9. If material is removed from the site, who will handle a leak or spill off site?

10. What and Who will transport exposed cleanup company personnel if required.

11. If our personnel are exposed, who will pay for blood work-ups and long term monitoring, if necessary?

12. If major problems / incident occurs; Who will notify whom? Who will notify local authorities? How will the local community be notified?

13. If a cave-in occurs at the excavation site; who will perform personnel extrication?

14. Who will provide protective equipment and training for local authorities who require access to the site?

15. The presence of DOD Ordnance on-site has been strongly suggested. What has been done to thoroughly investigate this possibility? What contingencies exist to deal with ordnance if it is discovered?

16. Will USEPA meet at some point with local officials to discuss these concerns and to develop training routines and contingency and response plans that address these issues?

17. The site is currently inadequately posted, allowing unsuspecting trespassers to wander onto the site. We recommend the site be more conspicuously posted, and that further, as soon as possible, the entire site be fenced off to prevent further unknowing entry.

18. It is our opinion that any persons in proximity to the site that are still on well water, be taken off well water prior to commencement of the cleanup effort.

The foregoing represents our identifiable concerns to date. After these questions are answered, the answers themselves will undoubtedly spark further questions.

Knowing this, our final recommendation is that continuous meaningful dialog be established between USEPA and the local government; that it continue throughout the process; that local officials be empowered to enter the site during the cleanup; and that a system be developed and maintained to respond to complaints emanating from the cleanup effort.



David R. Gully, Administrator  
Union Township, Butler County, Ohio

3 enclosures  
as stated



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

April 20, 1992

Ms. Nel Kilpatrick  
Union Township Administrative Building  
9113 Cincinnati-Dayton Road  
West Chester, Ohio 45069

Dear Ms. Kilpatrick:

The U.S. Environmental Protection Agency (U.S. EPA), the Ohio EPA (OEPA) and our contractors have completed a Remedial Investigation (RI), Baseline Risk Assessment (RA), and Feasibility Study (FS) of the Skinner Landfill Superfund site.

Per our discussion, please find enclosed a copy of the Proposed Plan for your review. We invite you to share your views about the recommended cleanup plan and the other alternatives presented in the Feasibility Study, and consider them valuable in helping select a final cleanup for the site.

We appreciate your offer to make copies of this document to distribute to your Trustees for their review. We would also like to thank you for your insight and input in the scheduling and review time for this document. In consideration of your suggestions we have scheduled the public meeting for May 20, 1992 at the Union Township Hall beginning at 7 p.m.

If you should have any additional questions about the Skinner Landfill Superfund site, please contact us.

Sincerely,

A handwritten signature in cursive script, reading "Sheila A. Sullivan".

Sheila A. Sullivan  
Remedial Project Manager  
U.S. EPA  
312/886-5251

A handwritten signature in cursive script, reading "Cheryl L. Allen".

Cheryl L. Allen  
Community Relations Coordinator  
U.S. EPA  
312/353-6196

**PROPOSED PLAN FOR THE  
SKINNER LANDFILL SITE, WEST CHESTER, OHIO**

**I. Introduction**

This Proposed Plan identifies the preferred option for cleaning up the contamination at the Skinner Landfill site. In addition, the Plan summarizes other alternatives that were considered and analyzed for this site. This document is issued by the U.S. Environmental Protection Agency (EPA), the lead agency for site activities, and the Ohio Environmental Protection Agency (OEPA), the support agency for this response action. The U.S. EPA, in consultation with OEPA, will select a final remedy for the site only after the public comment period has ended and the information submitted during this time has been reviewed and considered.

EPA is issuing this Proposed Plan as part of its public participation responsibilities under section 117(a) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). The purpose of this Proposed Plan document is specifically to: identify the preferred alternative for remedial action at the site and the rationale therein; describe the other remedial options that were considered by the agencies in the Feasibility Study (FS) report; solicit public review and comment on all the alternatives described in the FS; and, provide information on how the public can be involved in the remedy selection process.

This document is intended to merely summarize and highlight key information which is presented in greater detail in the Remedial Investigation (RI) and FS reports, and other site documents contained in the administrative record file for this site. Therefore, EPA and the OEPA encourage the public to review these other documents to gain a more comprehensive understanding of the site and Superfund activities that have been conducted there. Information about the locations of these document repositories is located on page 21 of this Proposed Plan document.

EPA, in consultation with the OEPA, may modify the preferred alternative or select a different response action as the final remedial action plan for the site, based on new information, arguments or comments submitted during the public comment period. Therefore, the public is encouraged to review and comment on all the alternatives identified in this Plan.

**II. Site Background**

The Skinner Landfill is located approximately 15 miles north of Cincinnati, Ohio, in Section 22 of Butler County (see Figure 1)



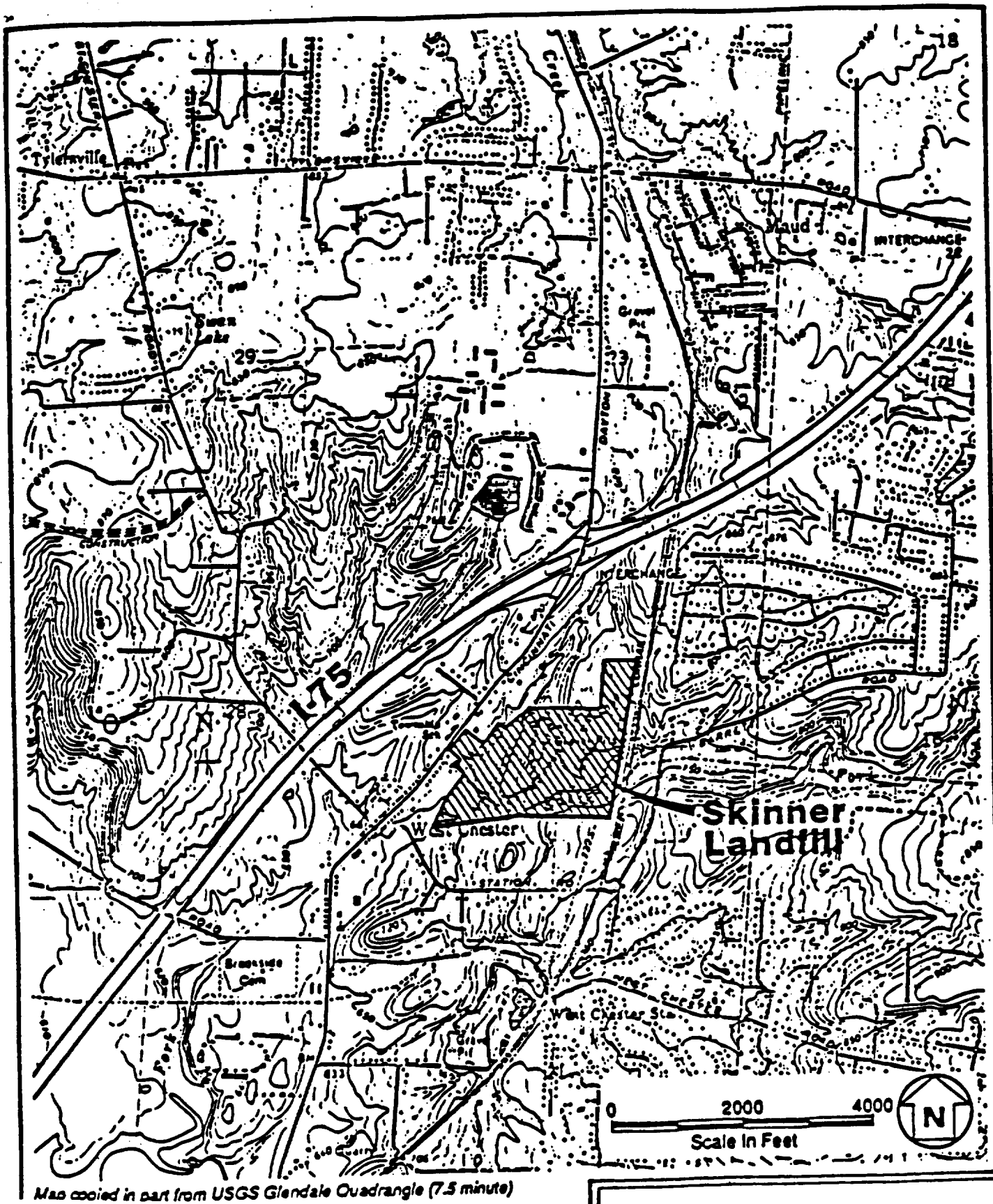


FIGURE 1

LOCATION OF SKINNER LANDFILL

and is situated approximately one-half mile south of the intersection of Interstate 75 and the Cincinnati-Dayton Road, and one-half mile north of the town of West Chester.

The Skinner property is comprised of nearly 78 acres of hilly terrain, bordered on the immediate south by the East Fork of Mill Creek. The site is bordered to the north by woods and old fields, to the east by a Consolidated Rail Corporation (Conrail) right-of-way, to the south across the East Fork of Mill Creek by agricultural and wooded land and to the west by the Cincinnati-Dayton Road. The principal residential area is west of the landfill; however, approximately 13 residences are located within 2,000 feet of the landfill to the south, and west. A residential area is also located approximately 0.5 miles east of the landfill (see Figure 2).

The property, originally used as a sand and gravel operation, first became involved in landfill operations in 1934 with the disposal of general municipal refuse in abandoned sand and gravel pits. It is unknown exactly what materials were deposited in the landfill from 1934 until the present. In 1959, the landfill was used for the disposal of scrap metal and general trash from a paper manufacturing plant. In the spring of 1963, the Butler County Board of Health approved the use of the site as a sanitary landfill. However, during the permitting procedure, local residents opposed the landfill, stating that chemical wastes were being dumped there.

In April of 1976, numerous citizen complaints and the observation of a black, oily liquid in a waste lagoon on the site prompted the OEPA to investigate the Skinner Landfill. This and subsequent visits showed evidence of a waste lagoon occupying about 1.5 acres, and several hundred drums scattered throughout the site. Mr. Albert Skinner has also stated that nerve gas, mustard gas, incendiary bombs, phosphorus, flame throwers, cyanide ash and explosive devices were buried at the landfill.

Analysis of samples taken from a trench excavated at the lagoon site revealed pesticides, some volatile organic compounds and elevated concentrations of several heavy metals. In January 1979, the court prohibited future disposal of industrial waste at this site except under legal permit.

In 1982, as a result of a Field Investigation Team (FIT) investigation, which revealed volatile organic compounds in ground water southeast of the buried lagoon, the Skinner Landfill was placed on the National Priority List (NPL) with a ranking of 659. This action prompted the initiation of a RI/FS with Phase I activities commenced by EPA in the Spring of 1986. This initial investigation included a geophysical survey, and the sampling of ground water, surface water, and soils. A biological survey of the diversity of fish and macroinvertebrate fauna collected from

# SITE MAP Skinner Landfill

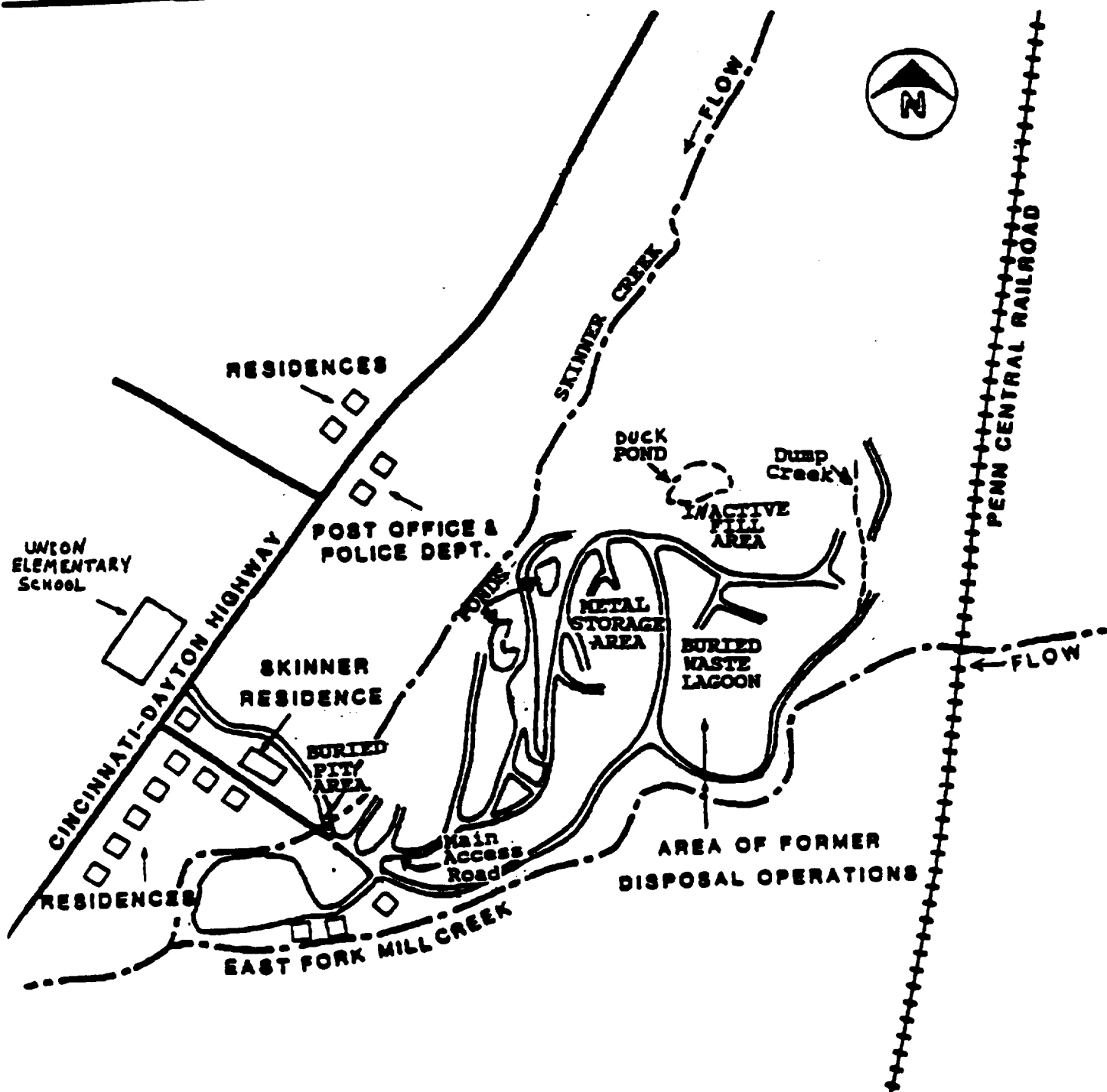


FIGURE 2

the East Fork of Mill Creek and Skinner Creek was performed.

Phase II of the RI/FS commenced in 1989 and further investigated the ground water, surface water, soils and sediments at the site. The predominant areas of investigation outside the landfill included residential wells near the landfill and the East Fork of Mill Creek upstream and downstream of the site. The OEPA achieved site closure to all landfilling activities in August 1990. The landfill currently covers about 10 acres.

### III. Summary of Site Risks

Because the Skinner Landfill accepted a variety of wastes since 1934 until it was closed in 1990, numerous chemicals have been detected at the site. Following the RI, an analysis was conducted to estimate the potential health or environmental problems that could result if the site was not cleaned up. This analysis is referred to as the Baseline Risk Assessment (RA). In this assessment, approximately 166 contaminants representing essentially all classes of chemicals including: inorganic, volatile and semi-volatile organic, pesticides, polychlorinated biphenyls (PCBs), polynuclear aromatic hydrocarbons (PAHs), dioxins and furans were evaluated for carrying through the risk assessment. Of these, 114 contaminants were retained from these chemical classes for use in assessing site risks. These chemicals can be found on Table 3-1 of the RA Report. Those contaminants contributing the most significantly to current and future site risks included: volatile organics such as carbon tetrachloride, vinyl chloride, benzene, chloroform, dichloroethene and bis (2-chloroethyl) ether; pesticides such as heptachlor, aldrin, dieldrin, chlordane, chlordene, and hexachlorobenzene; PCBs, specifically Arochlor 1254, and inorganics such as arsenic and cobalt.

The most highly contaminated media included the soils of the buried waste lagoon. Lower levels of contamination were found in the remaining site-wide soils which included the buried pit area. Lower levels of contamination were also found in the ground water and in the sediments in Mill Creek, Skinner Creek, and the Duck and Diving Ponds. Additional contamination may be from drums located north of the buried waste lagoon which were sampled in 1976 and 1986.

The remaining portions of the landfill contain smaller quantities of solid and industrial waste mixed with larger quantities of demolition materials. However, ground water monitoring wells located within the landfill indicate that the landfill is also a source of contamination. Leachate is created at this site when rain water or melting snow percolates through the waste lagoon and landfill. The majority of compounds in the waste lagoon are largely immobile, because they bind tightly to the clayey soils.

below the waste lagoon and are not dissolved by water. However, mobile VOC compounds in permeable zones beneath the waste lagoon have been detected. These compounds are apparently mobile in the water table and in perched ground water zones above impermeable layers. Contamination of the bedrock layer was minimal.

The majority of ground water contamination in the unconsolidated sediments appears to originate from within the buried waste lagoon. Additional sources may exist to the north and east of the buried waste lagoon as well as upgradient of the Skinner production well in the buried valley. Two wells located immediately adjacent to, and downgradient from, the lagoon are the most impacted. These wells contain a wide variety of contaminants with the majority being volatile organic and chlorinated semi-volatile organic compounds. Three wells located within the landfill indicated elevated levels of primarily benzene. Ground water monitoring wells located downgradient of the waste lagoon and landfill, and adjacent to the East Fork of Mill Creek, show considerably fewer contaminants and at much lower concentrations.

Surface water contamination is minimal in all ponds and creeks. However, pond and creek sediments contain low levels of some semi-volatile organic compounds, PCBs, arsenic, and pesticides. The most likely reason for the contamination is due to surface water runoff from the site.

The potential migration pathways for these contaminants include leaching from the soils to the ground water, movement of contaminated ground water to surface water and sediments, and volatilization of chemicals to air from water and soils. Sampling has indicated that concentrations of volatile chemicals in surface soils and water do not represent a significant source of concern for air. Additionally, the depth of contaminated soils in the waste lagoon limits emissions of these chemicals to air.

The only evidence of contaminants potentially leaving the site through ground water migration was the detection of ethylbenzene at low levels located across the East Fork of Mill Creek from the buried lagoon. The only potential off-site routes of migration for surface water and surface water sediments are through the East Fork of Mill Creek and Skinner Creek. The leachate seeps and ground water discharges into the East Fork of Mill Creek appear to originate from within the buried waste lagoon and clearly indicate a pathway for off-site migration of contaminants.

The RA showed that the potential routes of current and future exposure include: ingestion of and direct contact with contaminated soils; ingestion of affected ground water; dermal contact with ground water; inhalation of chemicals that

7

volatilize from ground water to air during showering; and, ingestion of and direct contact with surface water and sediments during recreational activities. Inhalation of fugitive dust and volatile chemicals was also evaluated qualitatively as a potential exposure route but did not warrant a quantitative assessment because emissions from surface soil would likely be low. This is because the most contaminated portion of the site, the buried waste lagoon, is beneath 40 feet of demolition debris and is not considered a source of air risk under the current conditions.

Risks at Superfund sites are typically assessed with respect to both carcinogenic and noncarcinogenic adverse effects of a chemical under current and future exposure scenarios. The current and potentially exposed populations are occupational workers at the site, residents living on and near the site, and persons who may recreate in the area. Cancer risks from various exposure pathways are assumed to be additive. The RA showed that currently none of the residents living, working, recreating, or attending school near the site are exposed to any site-related risks considered unacceptable by the U.S. EPA. Unacceptable risks are those that may result in one additional cancer case in 10,000 to 1,000,000 people exposed over a lifetime (70 years). However, the risks to persons currently living, working or recreating on the site are considered unacceptable in that they exceed one additional cancer case in 100 persons exposed over a lifetime.

The primary future potentially exposed populations are residential, recreational and occupational. The risks for the future potentially exposed residential population were assessed using both the assumptions that the waste lagoon was and was not developed for residential use. The future risks calculated for persons living working or recreating at the site were considered unacceptable in that they exceeded U.S. EPA's acceptable risk range. The risks under the assumption that the waste lagoon is developed for future residential use exceeded one additional cancer case in 100. The risks under the assumption that the waste lagoon was not developed for future residential use were slightly lower, but still exceeded one in 1,000.

The noncancer risks are evaluated with respect to a hazard quotient, which is the ratio of the level of exposure to an acceptable level. If the hazard quotient for an exposed individual or group exceeds 1.0 for a particular chemical, there may be noncancer health effects resulting from the exposure to that chemical. If the hazard index, which is the sum of the hazard quotients for all chemicals in a particular medium, exceeds 1.0 there may be a concern for potential health effects from exposure to that medium. The RA showed that the hazard indices at the Skinner site exceeded 1.0, suggesting that both current and future exposures to chemicals of concern on the site

may result in excess noncancer risks to all populations. Releases of hazardous substances from this site, if not addressed by the preferred alternative or one of the other measures discussed in this plan, may present an imminent and substantial endangerment to public health, welfare, and the environment.

#### **IV. Scope and Role of Response Action**

CERCLA provides a preference for achieving protection of human health and the environment through treatment which permanently and significantly reduces the volume, toxicity, or mobility of hazardous substances, pollutants and contaminants over remedial action not involving such treatment.

The preamble to the National Contingency Plan (NCP), March 8, 1990, states that treatment is the preferred alternative for the remediation of hazardous wastes. However, the NCP identifies the municipal landfill as a type of site where treatment of principal threats may not always be practicable due to difficulties in treating the volume or types of waste involved. Another difficulty could be short-term risks associated with the treatment remedy.

Principal threat wastes are those source materials considered to be highly toxic or highly mobile that generally cannot be reliably contained or would present a significant risk to human health or the environment should exposure occur. They include liquids, highly mobile materials (e.g. solvents), or materials having high concentrations of toxic compounds.

According to the February 1991 guidance, "Conducting Remedial Investigation/Feasibility Studies for CERCLA Municipal Landfill Sites", treatment of hot spots within a landfill may be considered practicable when wastes are in discrete, accessible locations of the landfill and present a potential principal threat to human health and the environment.

The preamble to the NCP also states that solutions will most often involve a combination of methods of providing protection, including treatment and engineering controls and institutional controls.

#### **V. Cleanup Objectives**

##### **Waste Lagoon**

Based on interviews conducted by U.S. EPA, OEPA file information and RI data, it appears that the waste lagoon was the primary dumping area for hazardous waste or waste containing hazardous substances from 1955 to 1976. Furthermore, 55-gallon drums are

buried near the vicinity of the waste as witnessed by OEPA in 1976. Based upon geophysical surveys conducted under Phase 1 and aerial photos of the site in 1976, it appears possible that as many as 7,000 drums of waste could be buried in this area.

The waste lagoon sediments contain highly toxic compounds including various pesticides, dioxins and furans. Also, based on limited data from the OEPA inspection in 1976, the buried drums contain liquid and non-liquid solvent and pesticide wastes. Furthermore, waste lagoon sediments contain various mobile solvent compounds. Based on the RI data to date, compounds associated with solvents are migrating from the waste lagoon and discharging to Mill Creek. Significant migration has been hindered, to date, by the clayey soils under most of the waste lagoon and because the waste lagoon is normally wholly above the water table. Current data also suggests, however, that at some time in the past, significant amounts of contaminants may have migrated to the East Fork of Mill Creek through sand and gravel layers in contact with the southern end of the waste lagoon.

According to the RA Report, incremental cancer risks associated with future exposure to the waste lagoon sediments under a residential scenario are estimated to be as high as  $2.0 \times 10^{-2}$ . Incremental cancer risk under a future recreational exposure scenario are estimated to be as high as  $1.6 \times 10^{-2}$ . The RA also indicates potential future migration of contaminants from the waste lagoon area to ground water and the East Fork of Mill Creek at higher quantities than what is currently being released.

The waste lagoon sediments and drum contents are potential principal threats due to their highly toxic and mobile nature. Thus, treatment and/or containment of the principal threats were carried forward through detailed analysis. The cleanup objective for the waste lagoon is as follows:

- To address principal threats, minimize release of contaminants to groundwater, and minimize direct contact threat by removal and treatment and/or containment of hot spots.

#### Landfill Contents

As stated earlier it appears that the waste lagoon was primarily used to dump hazardous wastes. The remaining property used as a landfill was not purchased until 1963. Based on visual inspection and site records, it appears the landfill area was used to dump primarily solid and demolition waste mixed with much smaller quantities of industrial/hazardous waste. Because the landfill area is composed of municipal waste and to a lesser extent hazardous waste, it poses a low-level threat rather than a principal threat. The volume and heterogeneity of the landfill



waste, as is the case with most CERCLA municipal landfills, make treatment impractical; therefore, containment of the landfill contents was carried forward through detailed analysis. The cleanup objective for the landfill contents is as follows:

- Minimize releases of contaminants to groundwater and minimize direct contact threat by treatment and/or containment of the landfill contents and removal of hotspots.

#### **Soils Outside of Buried waste Lagoon Area**

Because chemical-specific ARARs for soil have not been developed, remedial action levels have been developed and proposed based on risk-based criteria, U.S. EPA guidance and water quality ARARs. Water quality ARARs are used because remedial action objectives for soils must also be protective of ground water. Soil contamination is not acceptable at concentrations where leaching of contaminants from soils to ground water can create ground water contamination exceeding the remedial action levels proposed for this site.

These remedial action levels were developed based on a comparison between soil concentrations which are protective of ground water and risk-based standards for soils generated in the Baseline Risk Assessment. The more stringent of these two concentrations were proposed as remedial action levels. The proposed remedial action objective for onsite soils outside of the buried waste lagoon is the following:

- Reduce contaminant leaching from onsite soils in the areas containing contaminants at concentrations above proposed remedial action levels; and, minimize direct contact threat.

#### **Ground Water/Landfill Leachate**

Maximum concentrations of contaminants considered acceptable in ground water and leachate were determined from comparisons of risk-based acceptable concentrations and site ARARs. Where both risk-based maximum acceptable concentrations and ARARs could be established for a given contaminant, the most stringent was applied. Site ground water, particularly in the vicinity of the buried waste lagoon, has been impacted by contaminants. Ground water discharge to surface water occurs in the form of springs and seeps along creek valley walls. Leachate seeps also occur along valley walls. For the purposes of evaluating and implementing remedial actions, no distinction was made between impacted ground water and landfill leachate at this site; therefore, ground water and landfill leachate have been treated as a single medium.

Remedial action objectives for ground water and landfill leachate are proposed as follows:

- Containment and/or capture of all ground water and landfill leachate containing contaminant concentrations exceeding the proposed remedial action levels which would result in an excess lifetime cancer risk exceeding  $10^{-6}$ , or would result in a cumulative hazard index exceeding 1.0.
- Minimize the volume of ground water in which contaminant concentrations exceed the remedial action levels by minimizing contact of unimpacted water with impacted ground water and soils.
- Minimize migration of dissolved vapor phase ground water contaminants via engineering controls.

#### **Surface Water**

Surface water contamination has been primarily attributable to leachate seeps; however, no contamination has been detected in the water of ponds or creeks which exceeds chemical-specific ARARs. The remedial action objectives proposed for ground water and leachate are therefore expected to be protective of onsite surface water as well. Another potential source of contamination to surface water would be surface water runoff from the site, and erosion of site soils. The remedial action objective for surface water is as follows:

- Control of surface water runoff and erosion of site soils which may impact surface water.

#### **Surface Water Sediments**

The sources of contaminants that have impacted surface water sediments at the site are undefined. Feasible source mechanisms of detected contamination in surface water sediments include: runoff of precipitation from impacted surface drainage areas; discharge of contaminated ground water; and, transportation of contaminants from upstream sources. Containment of the landfill and buried waste lagoon area by capping would eliminate potential sources of surface runoff. Additionally, remedial actions which would minimize the volume of ground water and landfill leachate from the buried waste lagoon area will reduce any contamination of surface water sediments in the creeks.

Estimated risks posed by the pond sediments do not exceed a carcinogenic risk of  $10^{-6}$  nor do hazard indices exceed 1.0. Creek sediments for certain exposure scenarios are slightly higher; however, removal of creek sediments is not considered to be a

reasonable alternative because of the relatively small benefits from removal of the sediments as compared to the removal action's anticipated long-term detrimental effects to the aquatic habitat. Therefore, the remedial action objective for surface water sediments is proposed as the following:

- Natural attenuation of contaminants currently present in the creek and pond sediments by elimination of all sources originating from the Skinner Landfill site.

#### **Landfill Gas/Ambient Air**

Landfill gas is known to be emanating from the disposal contents, but the nature and volume of gas has not been quantified. Ambient air contamination has not been determined to be a specific problem on the Skinner site. Future remedial actions, however, may increase the extent to which contaminants would be expected to be discharged to the atmosphere from the landfill waste. The remedial action objective for onsite ambient air is proposed as the following:

- Air discharges from any proposed remedial action will be in compliance with applicable State and Federal regulations.

#### **VI. Summary of Alternatives**

All of the alternatives, except for the No Action alternative, described in this section possess the following common elements:

A) **Institutional Controls:** These controls include fencing at the site boundaries and any areas occupied by the remedy to minimize potential exposure of the general public to contaminants. About 6,600 feet of 6-foot high fencing would be installed. Deed restrictions will limit further excavation, construction or well installation in the area, especially on and near the waste lagoon and landfill areas once capping is completed.

B) **Water** will be supplied to families living on site by running a township water main to the in-place distribution system on the Skinner property. Water will also be supplied to other residents (about four residences) downgradient of the site whose wells have the potential to become affected.

C) **Ground Water Diversion:** Two cement-bentonite or soil-bentonite slurry walls will be used to restrict ground water flow. One wall will be placed near the northern site boundary to restrict ground water flow through the buried lagoon area from upgradient sources. The upgradient groundwater would be diverted on the northern side of the slurry wall using an interceptor

trench running along the entire length of the slurry wall. The second slurry wall will be placed between Mill Creek and the interceptor trench on the south side of the site.

D) Surface and Storm Water Diversion, Flood Control: Capping of the site would include the buried waste lagoon, the most recently active fill area, and adjacent (including easement) portions of the site. Capping of adjacent areas would allow for the appropriate slopes necessary to minimize infiltration and erosion. The site topography would be modified via grading and installation of a concrete retaining wall on the southern cap boundary to allow for the appropriate slopes and surface water controls. The retaining wall would be designed to withstand a 100-year flood.

E) Ground Water and Surface Water Runoff Monitoring: A monitoring program would be implemented to verify that migration of contaminants and surface water infiltration are effectively controlled.

#### **Alternative 1: No Action**

CERCLA requires that a "No Action" alternative be considered as a basis upon which to compare other alternatives. Under this alternative, no remedial action would take place and the site would remain in its present condition. All contamination would remain in the surface and subsurface soils, sediments, ground water and surface water. This alternative would not comply with State and Federal Applicable or Relevant and Appropriate Requirements (ARARs) and would not adequately protect human health or the environment. There would be no cost involved under this alternative.

#### **Alternative 2: Removal and On-Site Treatment of Buried Waste Lagoon Soils; Capping; Collection and Above-Ground Treatment of Ground Water**

Under this alternative, the most contaminated soils of the buried waste lagoon would be excavated and incinerated onsite via rotary kiln incinerator. Other impacted site soils would be excavated and consolidated beneath a common site-wide multi-media cap. The multi-media cap, which would consist of clay, a synthetic membrane, a biotic barrier and appropriate cover material, would be installed over the waste lagoon area and the most recently active landfill area. The site topography would be modified by regrading and installing a retaining wall to allow for the cap installation and conform to accepted landfill closure practices. Creek sediment contaminants would be allowed to naturally attenuate in situ.

Excavation of the buried waste lagoon would begin with the removal of debris overlying the area. The debris would be sorted

to remove large metallic and foreign matter. The remainder would be shredded and stockpiled on site. A Ground Penetrating Radar survey of the area would be performed to locate any drums which may be present in the area. Any drums located would be removed during the excavation of impacted soils.

The ash resulting from the soil incineration would be solidified, if necessary, to prevent leaching of metals. Stabilization of the ash would be accomplished by adding cement kiln dust, lime, or other appropriate material to the ash. The solidified ash would then be disposed of onsite beneath the cap. Regrading and capping would be performed to minimize the infiltration of surface water into the excavation area.

Ground water collection and treatment would also be performed by installation of an interceptor trench north and parallel to the East Fork of Mill Creek. The system would discharge ground water to an onsite treatment system consisting of two activated carbon adsorption vessels for removal of organic contaminants. Treated water from this system would discharge to the East Fork of Mill Creek under a National Pollution Discharge Elimination System permit or to the Butler County Publicly Owned Treatment Works. A slurry wall would be installed near the northern site boundary to minimize ground water recharge from upgradient and to de-water the contaminated soils in the capped landfill. Ground water flowing into the site from the upgradient north would be diverted on the northern side of the slurry wall via an interceptor trench (containing appropriate granular backfill) running along the entire length of the slurry wall.

In addition, the other common remedial elements previously described would also be implemented. These include: institutional controls; alternate water supply; ground water diversion; surface and storm water diversion and flood control; and, ground water and surface water run-off monitoring. The Present Value Cost of Alternative 2 would be \$28,700,000.

#### **Alternative 3: Consolidation and Capping of Soils; Collection and Above-Ground Treatment of Ground Water**

Under this alternative, impacted soils throughout the site would be consolidated beneath a common multi-media cap as described under Alternative 2. Creek sediments would be left to naturally attenuate in-situ.

A ground water collection and treatment system would also be installed to capture impacted ground water and leachate. This system would be identical to that presented under Alternative 2. A slurry wall would be installed near the northern site boundary to minimize ground water recharge from upgradient, and to de-water the contaminated soils in the capped landfill.

The other common remedial elements described previously will also be implemented. These include: ground water diversion; institutional controls; alternate water supply; surface water and storm water diversion and flood control; and, monitoring of ground water and surface water runoff. The Present Value Cost of Alternative 3 would be approximately \$15,500,000.

**Alternative 4: Consolidation and (Solid Waste) Capping of Soils; Collection and Above-Ground Treatment of Ground Water**

Alternative 4 would consist of all the elements presented under Alternative 3, including consolidation and capping of impacted soils, collection and on-site treatment of ground water and institutional actions. Alternative 4 would however, differ from Alternative 3 regarding the type of barrier layer to be used. Under Alternative 4, the barrier layer would consist of a single-media clay cap, complying with Ohio Administrative Code 3745-27-11 (Construction Specifications for Closure of Sanitary Landfills). The Present Value Cost of Alternative 4 would be \$14,800,000.

**Alternative 5: Removal and On-Site Treatment of Buried Waste Lagoon Soils; Site Capping; Soil Vapor Extraction; Collection and Above-Ground Treatment of Ground Water**

Alternative 5 contains all elements of Alternative 2, and also calls for treatment of capped soils via soil vapor extraction. Soil vapor extraction would be expected to remove residual volatile organic contamination from soils beneath the site cap. Because volatile organics are the most mobile constituents, the benefits of removing volatile organics may be significant. The Present Value Cost of Alternative 5 would be \$29,000,000.

## **VII. Evaluation of Alternatives**

The NCP requires that the alternatives be evaluated on the basis of the nine evaluation criteria listed below. This section discusses how the preferred alternative compares to the other alternatives considered. Remedies selected for Superfund sites must meet all nine criteria.

The U.S. EPA's Nine Evaluation Criteria For Addressing Hazardous Waste Sites are:

1. Overall protection
2. Compliance with Applicable or Relevant and Appropriate Requirements (ARARs)
3. Long-term effectiveness and permanence

4. Reduction of toxicity, mobility, and volume through treatment
5. Short-term effectiveness
6. Implementability
7. Cost
8. State acceptance
9. Community acceptance

### **VIII. Comparative Analysis of Alternatives**

#### **1. Overall Protection**

All alternatives under consideration (except the No Action alternative) are expected to be protective of human health and the environment in the long term.

Alternatives 3 and 4 are similar in terms of protection of human health and the environment. Each alternative would employ collection and treatment of ground water to prevent further contaminant migration from the site. Each alternative would also employ site regrading and capping to prevent further infiltration of surface water into soils and subsequent leaching of contaminants from soils to ground water. However, Alternative 4 would use a solid waste (single-media) cap and Alternative 3 would use a hazardous waste (multi-media) cap. This difference is not expected to significantly affect their protectiveness of human health and the environment. Contaminant mobility, however, would be reduced significantly by capping the site with a multi-media rather than a single-media cap; this is because infiltration of surface water would be less with a multi-media cap, thereby minimizing leachate generation. Infiltration is reduced by 90% through a single-media cap. The proposed ground water collection and treatment system is expected to capture infiltrated surface water from either cap. Therefore, Alternatives 3 and 4 are roughly equivalent in their abilities to protect human health and the environment.

Those alternatives which provide treatment of contaminants before on-site landfilling (Alternatives 2 and 5) provide the best overall protection because the contaminants will be treated to reduce their toxicity, mobility and volume. Alternative 5, which is similar to Alternative 2, is the most protective alternative in that it involves an additional contaminant removal step of in-situ soil vapor extraction. Alternatives 2 and 5 may pose some additional short-term risks over the other alternatives in that: some organic chemicals will become mobile via volatilization during the excavation step; increased dust and truck traffic in

the area; and, the potential to encounter military ordnance allegedly buried somewhere onsite.

## 2. Compliance With ARARs

Federal and State ARARs for this site are outlined in Section 2.0 of the Feasibility Study document. ARARs are addressed in three categories: chemical-specific, action-specific, and location-specific.

**Chemical Specific:** All the alternatives are expected to exceed chemical-specific ARARs for surface water and groundwater.

All the alternatives, except the No Action Alternative call for a ground water collection and treatment system to ensure that no further surface water degradation occurs. All surface water quality ARARs would be complied with for all remedial alternatives except Alternative 1.

The site ground water would exceed chemical-specific ARARs under all five alternatives. However, all alternatives except the No Action alternative would use a ground water collection and treatment system to prevent contaminant migration. Treated ground water would be in compliance with ARARs prior to discharge, but in-situ ground water concentrations would be reduced appreciably only by removal and treatment of impacted soils under Alternatives 2 and 5. Onsite ground water would remain at levels exceeding ARARs due to residual soil contamination, even under Alternatives 2 and 5. This soil contamination would be expected to cause leaching into ground water, resulting in a continuing need for onsite treatment. However, the additional step of soil vapor extraction under Alternative 5 would reduce the amount of residual soil contamination in the waste lagoon area that would be available to contribute to the groundwater contamination.

In-situ ground water contaminants would not be significantly reduced for either of the onsite disposal and capping scenarios of Alternatives 3 and 4. Although offsite migration of contaminants is prevented via the ground water collection and treatment system, elevated levels of contaminants in ground water above ARARs would remain indefinitely, resulting in a continuing need for this system.

**Action-Specific ARARs:** These ARARs will be complied with by all but Alternative 4, which uses a solid waste cap for the site. If materials on the site are determined to be hazardous waste (either listed or characteristic), capping the site would not comply with OAC 3745-27. All other aspects of this alternative, and all other alternatives would be in compliance.



Location-Specific ARARs: All aspects of all alternatives would be in compliance with location-specific ARARs.

### 3. Long-Term Effectiveness and Permanence

Alternatives which employ treatment as a primary remedial action for soils (Alternatives 2 and 5) are considered to be more effective in the long-term and more permanent. Alternatives which employ containment as a primary remedial action for soils (Alternatives 3 and 4) will result in the need for more long-term controls. Although some residual contamination is expected to be present after implementation of Alternative 2 or 5, the amount of residual environmentally mobile contamination onsite would be considerably less than that expected from consolidation and capping of the impacted soils and landfill contents. Thus the magnitude of residual risk posed by onsite contaminants would be greater under the alternatives prescribing containment than for those prescribing treatment.

### 4. Reduction of Contaminant Mobility, Toxicity and Volume Through Treatment

All the alternatives (except No Action) use activated carbon adsorption for ground water treatment; therefore, the alternatives are equal in terms of these criteria for ground water treatment.

Soil treatment is considered in two of the alternatives -- rotary kiln incineration in Alternatives 2 and 5 and soil vapor extraction in alternative 5. Rotary-kiln incineration would significantly reduce contaminant mobility, toxicity and volume. If air emission controls are used also, treatment via soil vapor extraction would also reduce contaminant mobility, toxicity and volume. Thus, the alternatives that treat soil are considered to more effectively reduce contaminant mobility, toxicity and volume. Further, subsequent treatment of residual soil contamination with soil vapor extraction will further reduce contaminant mobility, toxicity and volume.

Contaminant mobility would be reduced significantly by capping the site with a multi-media rather than single-media cap. With a multi-media cap, infiltration of surface water would be minimized, thereby minimizing leachate generation.

### 5. Short-Term Effectiveness

Alternatives 2 and 5 are considered to be less protective of human health and the environment over the short-term period than Alternatives 3 and 4. This risk would result from possible uncontrolled releases of vapor phase organic compounds during excavation of the buried waste lagoon. An air model was developed in the Feasibility Study to evaluate the potential

impacts of an open excavation. Results indicate that even under the worse case scenarios, the risks would be minimal. Onsite engineering controls and site security would further minimize any risks. All other alternatives are expected to be equally effective in the short-term.

#### 6. Implementability

All of the alternatives under consideration are equally implementable. Implementation of Alternatives 2 and 5 would require lead time for the manufacture, installation and conduct of trial burns and sampling prior to the operation of the incinerator. The other alternatives and the remaining aspects of Alternatives 2 and 5 would need considerably less time to implement.

#### 7. Cost

The alternatives can be ranked by cost as follows: Alternative 1 (No Action) has no associated cost. Alternative 4 is least expensive, followed in increasing order of magnitude, by Alternatives 3, 2 and 5. Based on a 30-year operating life, the estimated net Present Value Costs for technology and implementation range from \$14,800,000 for consolidation, containment and single-layer capping, to \$29,000,000 for partial soil excavation, incineration, multi-media capping and soil vapor extraction.

#### 8. State Acceptance

The State of Ohio supports the preferred alternative for the remedial clean up.

#### 9. Community Acceptance

Community acceptance of the preferred alternative will be evaluated after the public comment period ends and will be described in the Record-Of-Decision for the Skinner Landfill site.

### IX. The Preferred Alternative

The U.S. EPA and OEPA prefer Alternative 5 for the remediation of this site. This alternative involves the removal and treatment of buried waste lagoon soils, collection and treatment of ground water leachate, consolidation and capping of other impacted soils with treated soils, and institutional controls. Impacted soils from the buried waste lagoon, and other hot spots encountered during subsequent investigations, would be excavated and treated onsite via rotary-kiln incineration. Debris overlying the buried waste lagoon and impacted soils from elsewhere onsite would not

be treated onsite. These materials would be excavated, consolidated, and capped with a multi-media cap. Treated soil from this process would be stabilized to reduce leaching of the metals, and capped with a hazardous waste cap. Soil vapor extraction would be performed after capping to remove residual volatile organic contaminants from unsaturated zone soils.

The soil vapor extraction system is estimated to consist of six extraction wells, a vacuum pump, and an air emissions control system. A vacuum pump would induce air flow through the impacted soils. As the air passes over the impacted soils, volatile organic contaminants are volatilized into the air and are drawn out of the soils through the extraction wells. Extracted air is then pumped through an air emissions control system to reduce levels of contaminants prior to discharge. A regenerable dual-bed activated carbon adsorption system would be used to control air emissions. As previously described, ground water collection, treatment, and discharge to Mill Creek, as well as other institutional controls would be implemented.

The initial capital costs of Alternative 5, which includes materials and installation fees of all remedial components would be approximately \$22,900,000. The annual operating costs are estimated to be \$400,000. The total project cost is approximately \$29,000,000.

In summary, Alternative 5 will substantially reduce current and future risks to human health and the environment at the site by excavating and treating the principal threats and other less contaminated materials remaining at the site. Any risks associated with this alternative would be short-term in nature and ultimately balanced by the long-term protectiveness of this alternative. The U.S. EPA guidance entitled: "Conducting Remedial Investigations/ Feasibility Studies for CERCLA Municipal Landfill Sites" (February 1991), defines a hot spot as large enough that its remediation would significantly reduce the risk posed by the overall site, but small enough that it is reasonable to consider removal and treatment. The U.S. EPA believes that a hot spot defined as those waste lagoon sediments that exceed  $10^{-4}$  excess lifetime cancer risk and any drums nests encountered through the course of excavating the waste lagoon sediments, meet the above requirements because of the following reasons:

1. Since the majority of the hazardous waste is believed to be disposed in the waste lagoon, removal of the waste lagoon sediments using the above criteria would significantly reduce the risk posed by the overall site, by eliminating a significant source of hazardous substances.

2. The remaining waste would pose a risk equivalent to or less than the risks posed by the landfill contents.

3. The volume associated with the  $10^4$  criteria estimated at 17,000 cubic yards, is small enough that it is reasonable to consider removal and treatment.

Furthermore, the preferred alternative is believed to provide the best balance with respect to the nine evaluation criteria. Based on available information, the U.S. EPA and Ohio EPA believe the preferred alternative will be the most protective of human health and the environment, comply with ARARs, would be cost-effective, and would use permanent solutions and alternative treatment technologies to the maximum extent practical. Because this remedy uses incineration and vapor extraction to destroy organic contaminants, and stabilization to immobilize inorganic contaminants, it would also meet the statutory preference for a remedy that involves treatment as a principal element.

In addition to the preceding description, future investigations at the site are inherent in the scope of this remedy. Two areas of the site, for which limited information exists, are the northwest corner of the site above the Duck Pond and the buried valley source on the Skinner property. This area and other portions of the site where conditions may change will be further investigated. Any new and significant information discovered during these investigations will be made available to the public and factored into the remedial planning process.

#### **X. Community Participation**

For a complete description of the investigation and the alternatives under consideration for the site, interested persons can review the documents available at the following information repositories:

Union Township Library  
7900 Cox Road  
West Chester, Ohio 65069  
(513) 777-3131  
Hours: Monday-Friday, 10:00 am - 8:30 pm  
Saturday, 10:00 am - 5:00 pm

The Administrative Record, which contains all of the documents that EPA will use to select the final cleanup remedy for the site, is located at the following address:

U.S. EPA, Region 5  
Docket Room  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590  
Hours: Monday-Friday, 9:00 am - 5:00 pm

Written comments will be accepted during a public comment period held between April 27 and May 27, 1992. Members of the community are encouraged to attend a public meeting on May 20, 1992 at 7:00 p.m., at the Union Township Hall to discuss the proposed alternatives for remediating contamination at the site. Verbal comments will be recorded during the meeting. Comments received during the public meeting will be addressed in a Responsiveness Summary, which will be included in the Record of Decision (ROD) and will be made public in the information repository after the ROD is signed.

If you have comments or questions about the Skinner Landfill site, please address them to:

Cheryl L. Allen  
Community Relations Coordinator  
U.S. EPA, (P-19J)  
Office of Public Affairs  
77 West Jackson Street  
Chicago, Illinois 60604-3590  
(312) 353-6196

Sheila A. Sullivan  
Remedial Project Manager  
U.S. EPA, (HSRM-6J)  
Office of Superfund  
77 West Jackson Street  
Chicago, Illinois 60604-3590  
(312) 886-5251

Toll Free Number: 1-800-621-8431  
(9:00 a.m. - 4:30 p.m. CST)

## GLOSSARY

**Applicable or Relevant and Appropriate requirements (ARARs)** - Federal, State and local environmental and public health laws with which remedial actions must comply.

**Baseline Risk Assessment** - A study conducted to determine the associated short and long-term current and future risks posed to public health and the environment if no remedial actions are undertaken.

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)** - A Federal law passed in 1980 and revised in 1986 by the Superfund Amendments and Reauthorization Act. CERCLA created a special tax that goes into a trust fund, commonly known as "Superfund", to investigate and clean up abandoned or uncontrolled hazardous waste sites.

**Dioxins** - Toxic chemical compounds which are usually generated as a by-product of chemical production processes, combustion processes, auto exhaust, and wood treating operations.

**Furans** - See Dioxins above

**Ground Water** - The water beneath the earth's surface that flows through soil pores and rock openings.

**Inorganic Compounds** - Chemical compounds that are composed of mineral materials, including salts and minerals such as iron, aluminum, mercury, and zinc.

**Leachate** - A liquid (usually water from rain or snow) that has percolated through wastes and contains components of those wastes.

**National Priority List (NPL)** - U.S. EPA's list of top priority hazardous waste sites that are eligible for federal money under Superfund.

**National Contingency Plan (NCP)** - The Federal regulation that sets the framework for the Superfund program. The NCP identifies the governmental organizations involved in the remedial response, outlines their roles and responsibilities, and discusses the interrelationships of these organizations. In addition, the NCP provides guidelines for planning and conducting response activities.

**Organic Compounds** - Chemical compounds composed primarily of carbon, including materials such as solvents, oils, and pesticides.

**Permeability** - The ease with which ground water moves through earth materials. Movement is controlled by the size and shape of spaces between these materials.

**Polychlorinated Biphenyls (PCBs)** - A group of organic compounds related by their basic chemical structure. They are highly resistant to degradation, but have a tendency to be retained in body tissue. They were widely used in electrical capacitors, transformers, and other products in the U.S. before 1980.

**Present Value Cost** - An economic term used to describe today's cost for a Superfund cleanup and reflect the discounted value of future costs. A present value cost estimate includes construction and future operation and maintenance costs. U.S. EPA uses present value costs when calculating the cost of alternatives for long-term projects.

**Record of Decision (ROD)** - a document signed by EPA's Regional Administrator, outlining the selected remedy for a Superfund site. The ROD includes the Responsiveness Summary, which addresses concerns presented to EPA during the public comment period.

**Sediment** - Material that settles to the bottom of a stream, creek, lake, or other body of water.

**Surface Water** - Streams, lakes, ponds, rivers or any other body of water above the ground.

**Semi-volatile Organic Compounds** - Organic chemicals that vaporize less readily than VOCs. These compounds include many polynuclear aromatic hydrocarbons and pesticides.

**Slurry Wall** - A civil engineering technique commonly used at hazardous waste landfills to prevent movement of water soluble and mobile contaminants by restricting ground water movement around or beneath the contaminant source. The most common slurry wall construction method is to excavate a trench and backfill with low permeability mixtures of soil or cement and bentonite clay.

**Volatile Organic Compounds (VOCs)** - Organic chemicals, such as methylene chloride and benzene, that vaporize easily. Some VOCs found at the site include carbon tetrachloride, vinyl chloride, benzene, and chloroform.





JOHN A. BOEHNER

OHIO

COMMITTEES  
AGRICULTURE

EDUCATION AND  
LABOR

SMALL BUSINESS



**Congress of the United States**  
**House of Representatives**

May 28, 1992

WASHINGTON OFFICE

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(202) 225-6208

DISTRICT OFFICES

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12 SOUTH PLUM STREET  
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(513) 338-1524

DISTRICT TOLL FREE NUMBER  
1-800-582-1001

Ms. Mary Canavan  
Congressional Liaison  
U.S. Environmental Protection Agency  
Ralph Metcalfe Federal Building  
77 W. Jackson Blvd.  
Chicago, Illinois 60604-3590

Dear Mary:

I am writing to express my concern regarding the recent public forum regarding the Skinner landfill. I preface my remarks by admitting that I was not in attendance and thus am relying upon the comments and concerns directed to me by my constituents, members of my staff and newspaper accounts of the meeting.

Fairly or unfairly, I must state that it appears my earlier concerns as outlined in my letter of last week and the suggestions and comments of my staff in their phone conversation with your office were either ignored or not understood. I hope that it is simply a case of our not communicating clearly with you.

"I pay my taxes, a lot of them. I guess then when I attend a meeting with a Federal agency in charge, I would at least expect that someone would show up from that agency who did not sound stupid and shrug their shoulders." This very harsh statement was directed to my staff after the meeting by a constituent in attendance. It is of a similar nature to calls my office received the day after the meeting.

My impression is that there were numerous questions, many of a technical nature, that went unanswered, including questions regarding the sighting of an incinerator close to a school, emission models and off site incineration. In our previous communications, I suggested that EPA be prepared to fully address these specific questions as well as those of a more technical nature. I sincerely hope that in the future EPA is better able to answer these type of questions when conducting public meetings.

It is not my intent or desire to enter into an adversarial relationship with EPA regarding the Skinner landfill. Indeed, I would hope that together we could prove to the residents of Union Township that in at least this case, the Federal government can be responsive to a community's needs. However, I feel that perhaps you underestimated the seriousness of my suggestions and concerns as outlined earlier.

I once again wish to reiterate my desire to work with EPA in assuring that the cleanup of the Skinner landfill be done in the most cost effective, expeditious and safest manner possible. We owe no less to the current and future residents of Union Township.

Sincerely,

John A. Boehner

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PUBLIC HEARING

\* \* \*

IN RE:

SKINNER LANDFILL SUPERFUND SITE

\* \* \*

TRANSCRIPT OF PROCEEDINGS

\* \* \*

BE IT REMEMBERED, that the above-entitled meeting  
commenced at the Union Township Administrative Building,  
9113 Cincinnati-Dayton Road, West Chester, Ohio, on Wednesday,  
May 20, 1992, at 7:10 p.m.

\* \* \*

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I N D E X

SKINNER LANDFILL SUPERFUND SITE

Public Hearing

Page 3

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## 1 SKINNER LANDFILL SUPERFUND SITE

## 2 PUBLIC MEETING

3  
4 MS. CHERYL ALLEN: Good evening, everybody,  
5 and thanks for coming. My name is Cheryl Allen, and I'm the  
6 Community Relations Coordinator with U.S. EPA and your  
7 moderator for tonight's meeting.

8 I hope when you came in this evening that  
9 you signed your name to the sign-in sheet as that adds your  
10 name to any future fact sheets or updates on Skinner Landfill.  
11 If you'd like to get further information about Skinner I  
12 encourage you to visit the information repository located at  
13 the Union Township Library, 7900 Cox Road in West Chester.  
14 Now, the repository contains laws, relation plans and other  
15 documents about the investigation at the Skinner Superfund  
16 Site.

17 Now, the purpose of tonight's meeting is to  
18 discuss with you the Feasibility Study and proposed plan for  
19 the Skinner Landfill and most importantly to take your oral  
20 comments on the proposed alternatives to clean up the site.  
21 The public comment period on the Feasibility Study and the  
22 proposed plan is the next step in selecting a final remedial  
23 action for the cleanup of the Skinner Landfill site. The  
24 comment period provides the opportunity for local residents to  
25 express their thoughts and give comments to U.S. EPA on all of

1 concentrations get lower. In this area the concentrations are  
2 very few VOC's and in the five to ten parts per billion range.  
3 Ground water discharge in the East Fork Mill Creek -- and we  
4 sampled the creek in the water column -- we came up with -- it  
5 was nondetect; and sediments, there were some compounds above  
6 background, but we don't really -- they're not really  
7 ground-water related; they're more from surface runoff.

8 But this is a current snapshot of the site  
9 and what will happen in the future. I guess the main  
10 conclusion that can be drawn from our investigation is there is  
11 a definite pathway from the waste lagoon to East Fork Mill  
12 Creek. And given the nature of the highly contaminated waste  
13 lagoon sediments -- and there are also buried drums near the  
14 waste lagoon area -- ground water and surface water in East  
15 Fork will degrade to where concentrations are much greater than  
16 they are today.

17 And what does this all mean? What's the  
18 risk posed under no action? Well, this is where I hand it over  
19 to Sheila, and Sheila will talk about the current risks.

20 MS. SHEILA SULLIVAN: At the time of our  
21 last public meeting we were in the midst of the risk  
22 assessment. And so now I'd like to give you a brief overview  
23 of the process and the results that we came up with.

24 UNIDENTIFIED SPEAKER: Can you speak  
25 louder, please? Somehow it isn't coming through the

1 microphone.

2 MS. SHEILA SULLIVAN: The first overhead  
3 here, Objectives of the Baseline Risk Assessment. We want to  
4 get an idea of the current risks to the public and the  
5 environment from the site and what the future risk would be at  
6 the site if it were not cleaned up. That's why we call it a  
7 Baseline Risk Assessment. Secondly, we want to find out how  
8 much of the contaminants can be left on site without posing an  
9 unacceptable risk to human health and the environment.  
10 Thirdly, the Risk Assessment gives us a basis for comparing the  
11 potential health impacts from all five remedial alternatives  
12 that we'll be talking about later. And lastly, it gives us a  
13 consistent record for documenting the health risks at the site.

14 The first step that we went through was to  
15 identify our chemicals of concern at the site. We looked at  
16 the data from both of the remedial investigations that were  
17 conducted, and a total of about 166 chemicals were found at the  
18 site. Of these, about 114 chemicals were retained and carried  
19 through the risk assessment. These chemicals that were  
20 retained represented all the classes of chemicals that were  
21 found, which included inorganics that includes metal, volatile  
22 organics, semi-volatile organics, pesticides, dioxins and  
23 furans.

24 The next step is the exposure assessment.  
25 And this is a critical step because we're looking at all the

1 the remedial alternatives concerning the site. Based on the  
2 public comments we receive tonight through oral comments and  
3 through the mail, EPA may modify the proposed plan or choose  
4 another alternative developed from the Feasibility Study.

5           Following the public comment, EPA prepares  
6 what is called a Responsiveness Summary which will address all  
7 the public comments that we receive here tonight and through  
8 the mail. EPA will then cite a ROD, or Record of Decision,  
9 which is a document that outlines the cleanup action which will  
10 be implemented at the site. After the Record of Decision a  
11 design is completed and the cleanup will begin at the site.  
12 Now, the oral comment period for Skinner was scheduled to  
13 conclude on May 27th, 1992, but based on a request for an  
14 extension the comment period will now conclude on July 13th; so  
15 you can continue to send written comments to me at the address  
16 listed inside the fact sheet or you can give your oral comments  
17 here this evening.

18           A component of EPA's preferred alternative  
19 is incineration. In late June, U.S. EPA will conduct an  
20 incineration workshop which will focus in more detail on your  
21 questions and concerns about incineration. We have also  
22 provided you with a question-and-answer fact sheet on  
23 incineration; and if you didn't get that, they're on their way.  
24 We will be notifying you in the future as to the time, date and  
25 location of the workshop within the next few weeks.

1 Right now I'd like to briefly go over the  
2 agenda for tonight's meeting and introduce to you our  
3 presenters. Fred Bartman is the Remedial Project Manager for  
4 U.S. EPA, and he will give the site background and explain the  
5 remedial investigation. Sheila Sullivan is also Remedial  
6 Project Manager for U.S. EPA, and she will explain the Risk  
7 Assessment results and explain the evaluation of the  
8 alternatives. Then Fred will come back and explain the  
9 proposed alternative, and Sheila will address some of the  
10 community concerns we have received thus far through the mail  
11 and through telephone conversations.

12 I'd like to also recognize Mark Sheahan who  
13 is Remedial Technologies Coordinator for Ohio EPA. And in the  
14 audience this evening we have Kathy Lee Fox. Where are you,  
15 Kathy? She's the new Site Coordinator for Ohio EPA for Skinner  
16 Landfill; and she is located out at the Southwest District  
17 Office in Dayton. Mike Scarky is a Group Leader for Ohio EPA.  
18 Jane Taft, she is the Public Involvement Coordinator for  
19 Ohio EPA. Bill Troxler is from Focus Environmental,  
20 Incorporated. It's an incineration consulting firm. And  
21 Gina -- she's probably out front. She was the young lady that  
22 was signing everyone in -- she was the former Community  
23 Relations Coordinator for Skinner.

24 Now, after all the presentations are made  
25 you will have an opportunity to ask questions; and then after



1 the question-and-answer period we will begin the public comment  
2 portion of the meeting. During that time anyone who wishes to  
3 make any statements about the proposed remedy of Skinner may do  
4 so. And we ask you to state your name for public record  
5 because we have a court reporter here who is recording the  
6 whole proceeding; and we will be officially doing that because  
7 we need all your comments to respond in the Responsiveness  
8 Summary, as I explained earlier.

9 So, right now I'd like to introduce  
10 Fred Bartman. And Fred?

11 MR. FRED BARTMAN: Welcome everyone.  
12 Welcome to another one of our meetings. We had a meeting a  
13 little less than a year ago regarding the RI background. We  
14 have a lot of material to cover, so I'm just going to touch on  
15 the highlights of our investigation.

16 Waste has been sent to this site since at  
17 least 1955.

18 UNIDENTIFIED SPEAKER: Excuse me. Can you  
19 turn the speaker up a bit? People can't hear.

20 MR. FRED BARTMAN: It's mostly trash and  
21 demo material that's been sent to the site, but there is  
22 hazardous waste. EPA estimates there is over one million  
23 gallons of hazardous waste that's been sent to this site. All  
24 waste disposal is confined to a 15-acre area of the site. The  
25 majority of the hazardous waste, we believe, is disposed in a

1 waste lagoon. This is the same waste lagoon that was  
2 discovered by the Fire Department and investigated by Ohio EPA  
3 in 1976. Since then there's been demo material placed on top  
4 of this waste lagoon from 1985 to 1990.

5 We also looked at other areas of the site  
6 where there may have been potential dumping. There's three  
7 ponds on site and the two creeks that border the site; and  
8 there was a darkened, stained area referred to in the reports  
9 as a buried pit. But our investigation focused mainly on the  
10 landfill and the waste lagoon area.

11 (Viewing overhead projector.)

12 This is a cross-section of the site near  
13 the waste lagoon area. This top layer is the demo material  
14 that's currently on top of the waste lagoon. Below that are  
15 the soils that made up the former waste lagoon sediment. This  
16 includes the pink and purple areas. The blueish areas  
17 represent a clay silt layer; and there's been very little  
18 vertical migration in those areas. The green area represents  
19 sand and gravel. It's a more permeable zone and that's where  
20 we've had our greatest migration.

21 And contamination has migrated down into  
22 ground water. In one well, GW-20, which is located nearest the  
23 landfill, we detected primarily VOCs ranging in concentrations  
24 from 10 to 00 parts per billion. Ground water flow is towards  
25 East Fork Mill Creek. As we approach East Fork Mill Creek the

1 current and future ways that humans and other organisms can  
2 come in contact with site contaminants. This is also the most  
3 difficult step because it involves many considerations and a  
4 lot of uncertainty. There tends to be a lot of information  
5 that we don't always know; and in these cases the agency uses  
6 standard exposure assumptions that produce maximum exposure,  
7 that is, the maximum exposure that is reasonably expected to  
8 occur.

9           In the exposure assessment process there  
10 are some general steps that we have to follow. Characterize  
11 the physical setting of the site. We're looking at the  
12 climate, meteorology, vegetation.

13           Secondly, identifying the  
14 potentially-exposed populations. This could be the residents  
15 on site, the 800 people at the elementary school, children at  
16 the day-care center at the southwest edge of the site, people  
17 in the surrounding community. We look at all these  
18 populations. And we also have certain sub-populations that we  
19 want to consider; and those are people that have the greatest  
20 potential to come in contact with the site contaminants. These  
21 would be people who work on the site or people that trespass  
22 onto the site and can come in direct contact with the  
23 contaminants.

24           The next step is we identify the exposure  
25 pathways. This is the path a contaminant can take from the

1 site to the exposed organism. The overall site risk then is a  
2 composite of all these different exposure pathways.

3 I want to go into this just a little bit.  
4 There are four components to an exposure pathway. You need a  
5 contaminant source and a release mechanism. This would be the  
6 source itself, the site itself. And the release mechanism  
7 could be volatilization, it could be leaching, something like  
8 that.

9 We also need a receiving medium where the  
10 contaminant goes into. Say we have leaching from the waste  
11 lagoon into the creek. The creek would be the receiving  
12 medium.

13 We need an exposure point. This could be  
14 if a child is playing in the creek, that would be the exposure  
15 point. And we also need an exposure route at that exposure  
16 point; and that's going to be inhalation, ingestion, something  
17 like that.

18 So, if any one of these four steps are  
19 missing, you do not have a complete exposure pathway and  
20 therefore you do not have exposure. So, this is a very  
21 important concept that you need to be aware of.

22 OK. We also need to -- going back to  
23 this -- estimate our exposure-point concentrations. And this  
24 tells us what is the concentration of the contaminant, where  
25 people are coming in contact with the site or the

1 contamination, what is available for a human to take up. And  
2 the last is to estimate the chemical intakes. And this is how  
3 much of the contaminant will the organism take into its system.

4 Now, as I mentioned earlier, when we have  
5 unknown information the Agency makes conservative assumptions  
6 to insure that the actual intake will be less than what we've  
7 estimated. Some of the conservative assumptions we've made  
8 during the risk assessment is that ground water will be used  
9 for drinking water and that the waste lagoon could be developed  
10 in the future for residential use. So, these are conservative  
11 assumptions.

12 The next step in the process is the  
13 toxicity assessment. And here we look at the inherent toxic  
14 properties of the chemicals of concern, such as whether the  
15 chemical causes cancer in animals or humans, or whether it  
16 causes other adverse effects that are not cancer; it could be  
17 anything from dizziness to organ damage to anything, anything  
18 that is not cancer-related but is an adverse health effect.

19 Usually most of the data available for  
20 chemicals is from animals, animal studies. So, the Agency has  
21 to take this information and evaluate the likelihood of whether  
22 humans would also sustain those same effects. Now, most of  
23 this information is available in standard EPA data bases.

24 The last step is the risk characterization.  
25 And here we combine the information from the toxicity

1 assessment and the exposure pathways to come up with the total  
2 risk values for cancer and noncancer risks. Cancer risks are  
3 expressed in terms of the increased probability that cancer  
4 will occur due to a site-related exposure for over a lifetime,  
5 which we estimate as seventy years. So, this is the risk over  
6 and above what the background cancer risk rate is, which has  
7 been one in four nationally.

8                   This shows the numerical expression that we  
9 used to express cancer risk. And this is basically one in ten  
10 million. Many times you just see it written as one in ten to  
11 the minus seventh exponent. And that means one in ten million  
12 persons will develop cancer from a lifetime exposure to the  
13 site. Another example is three times ten to the minus four.  
14 That means three people in 10,000 would develop cancer due to a  
15 lifetime of site-related exposure.

16                   Now, the EPA has an acceptable risk range.  
17 And anything within that range and below that is considered an  
18 acceptable risk. And here we have one in ten to the minus  
19 four -- or one in 10,000 -- to one in a million as the  
20 acceptable risk range.

21                   So, with that, this shows you for the  
22 Skinner Landfill the current and future risk ranges we came up  
23 with for both adult and child populations. OK. So, the  
24 current adult population experiences a cancer risk of somewhere  
25 between four and nine in 100. The current child population

1 experiences a cancer risk of somewhere between three and four  
2 in 100 for a lifetime exposure to site contaminants. Under the  
3 future scenario you can see that the risks are much greater  
4 especially when we assume that the waste lagoon will be  
5 developed residentially.

6 And you can see that we did the risk  
7 assessment in two ways. We looked at if it were not developed  
8 and we looked at the possibility of it being developed. And  
9 you can see the risks vary between those two scenarios. But  
10 the risks basically range somewhere in between one in 100 to  
11 one in 1000 risk range.

12 Noncancer risks. Other adverse health  
13 effects besides cancer are expressed in terms of what we call a  
14 hazard index. This is simply the ratio of the average exposure  
15 to the site to what is considered to be an acceptable intake  
16 or, we call it, a reference dose. And if the exposure from the  
17 site exceeds the acceptable exposure, then this hazard index  
18 will exceed one. And that's how we tell whether something  
19 produces a risk or not. The Agency considers anything less  
20 than or equal to one as an acceptable noncancer risk. The  
21 greater this number becomes, the greater the risk of  
22 experiencing a noncancer adverse health effect. So, it gives  
23 us a way to make -- to look at relative risks.

24 This shows you the noncancer risks from the  
25 site. OK. You can see that the current risk to the adult

1 population is slightly larger than the child population.  
2 That's because we also have the exposure group, the  
3 occupational exposure group, which children are not included  
4 in. So, that produces an additional exposure for adults.  
5 Again, under a future scenario you can see that the noncancer  
6 risks are much larger if you assume that the waste lagoon is  
7 going to be developed.

8                   We can also look at the risk in terms of  
9 how much is presented by each of the contaminant media at the  
10 site. The greatest risks are presented by the site soils and,  
11 to a lesser extent, the ground water. At this point the waste  
12 lagoon doesn't pose a risk because it's covered with 25 feet of  
13 demolition material. Now, in the future, though, this will  
14 pose a risk. We have a one in 100 risk here for future waste  
15 lagoon development. And all of the risks go up a little bit.  
16 See, the ground water risk is going to go up because the  
17 leaching from the waste lagoon is going to go into the ground  
18 water and that's going to bump that risk up. And also the  
19 ground water is going to discharge into the Mill Creek, so the  
20 Mill Creek risks are going to also go up.

21                   And let me just flash this up here because  
22 you haven't really seen a site map yet. This will give you an  
23 idea of the current risks in green and the future in blue. The  
24 black shows when the risk will not change between current and  
25 future. Notice the sediment risks are fairly low.



1 OK. Now I'd like to go into the remedial  
2 alternatives portion of the agenda. OK. After we've estimated  
3 the risks for the various media at the site, we can identify  
4 which media have to be cleaned up and to what level so that an  
5 unacceptable risk is not posed to the human health or the  
6 environment. And the Agency follows a certain process so that  
7 the most appropriate clean-up plans are developed for sites.

8 The first step that we do is we establish  
9 clean-up objectives for all of the media that have been  
10 impacted at the site. Now, we define impacted as media that  
11 has contamination that presents a cancer risk above one in  
12 10,000 to one in ten million risk range, and the noncancer risk  
13 which has a hazard index over one. And, also, impacted is  
14 defined by if State or Federal standards and criteria designed  
15 to protect the environment are exceeded. This would be ICL's  
16 for drinking water or water-quality standards, something like  
17 that.

18 Now I'm going to run through the different  
19 media at the site and explain to you what our rationale is or  
20 what our clean-up objectives were for that media. The first  
21 areas is the buried waste lagoon. In the buried waste lagoon  
22 there were many chemicals exceeding the risk base levels, and  
23 it is the most concentrated contaminated area of the site and  
24 it poses the greatest threat. The materials in the waste  
25 lagoon constitute what we call a principal threat. A principal

1 threat is a highly toxic, highly mobile compound that can't be  
2 reliably contained and would present a significant risk if  
3 exposure occurred. The Agency's Municipal Landfill Guidance  
4 recommends treatment of hot spots in landfills when the wastes  
5 are in discreet, accessible locations and they pose a principal  
6 threat to human health and the environment. Hot spots are  
7 defined as areas posing risks greater than one in ten thousand.

8                   Now, the buried waste lagoon soils and the  
9 drum contents that may be present pose a principal threat. Our  
10 objectives for this are to minimize the release of those  
11 contaminants to the ground water, prevent direct contact with  
12 those contaminants and contain or remove and treat those hot  
13 spots.

14                   The other portion of the  
15 soils -- contaminated soils we've called site-wide soils. And  
16 these include other contaminated areas of the site such as the  
17 buried pit; and there were some contaminated soils around some  
18 of the ground water monitoring wells. As of now the Agency has  
19 no standards for contamination in soils, so action levels are  
20 based on risk base criteria that we generated in the Risk  
21 Assessment and also on any criteria that are available such as  
22 drinking-water standards, water-quality criteria.

23                   The soil contamination levels aren't  
24 acceptable if leaching from the soil into the ground water  
25 produces ground water levels that exceed their clean-up

1 criteria. So, what we've done is calculated the maximum in the  
2 soil that won't produce ground water contamination levels over  
3 one in one million or a hazard index over one. So, we want to  
4 clean up and contain those soils to prevent leaching and  
5 prevent direct contact with those soils as well.

6           The recent fill area which is up here, it  
7 was the most recently active land filled in this area. This  
8 was mainly used to dump solid and demolition wastes and it was  
9 mixed with much smaller quantities of industrial waste. So,  
10 treatment isn't practical due to the volume and variety of  
11 contaminants in the landfill. So, containment was carried  
12 forward as an action objective.

13           As far as ground water goes, the ground  
14 water and landfill leaching -- they were lumped  
15 together -- exceeded the response levels for ground water,  
16 which are either risk-based levels or drinking-water standards  
17 or any State criteria. The remedial action objectives for  
18 ground water were to contain and capture all the ground water  
19 and leaching all the produced cancer risks over one in one  
20 million or a hazard index over one. We wanted to minimize the  
21 contact between the unimpacted ground water and the  
22 contaminated ground water and the contaminated soil. And we  
23 also wanted to minimize the migration of the contaminants in  
24 the ground water.

25           Now, the surface water -- most of the

1 surface water contamination is from leaching discharging to  
2 Mill Creek and Skinner Creek. Some of it is also due to  
3 erosion and runoff. No contamination was found in the surface  
4 water that exceeded specific standards, and so the clean-up  
5 objectives for ground water and leaching -- it was felt that  
6 the clean-up objectives for ground water and leaching are going  
7 to be protective of the surface water since there is a direct  
8 connection. So, what we needed to do with surface water is  
9 control the surface-water runoff and the soil erosion.

10 OK. Now for the sediments in the surface  
11 water bodies. These are the ponds and the creeks. The  
12 sediments in Skinner and Mill Creek had some higher levels of  
13 organics that bumped the risk up over one in one million or ten  
14 to the minus six. The hazard index, however, was not over one.  
15 The sediment contamination was due to runoff or precipitation  
16 from surface drainage areas and due to some ground water  
17 discharge as well.

18 This can be remediated by eliminating  
19 surface-water runoff and minimizing the amount of leaching and  
20 ground water that go into the -- that come from the lagoon.  
21 And so capping and containing the landfill was felt to be the  
22 best objective. The removal of the creek sediments by dredging  
23 or something like that was felt not reasonable because of the  
24 small benefits that would be gained versus the long-term,  
25 adverse impacts to the aquatic habitat. The pond sediments did

1 not exceed one in one million risk and the hazard index was not  
2 over one, so the remedial action goal was to leach them  
3 naturally by leaving them in place.

4 The landfill gas in the ambient air. For  
5 this the remedial action goal was that any discharges from any  
6 actions at the landfill would comply with all applicable State  
7 and Federal regulations.

8 OK. So, those are -- that's a rundown of  
9 the different media at the site and what we -- how we  
10 rationalize what we would do with it.

11 OK. The next step is to develop general  
12 response actions for each of the impacted media that will  
13 satisfy the clean-up objectives that we just mentioned. And  
14 then the next -- after that we identified all the technologies  
15 possible to accomplish the response actions. And we screened  
16 them based on effectiveness, implementability and cost. The  
17 Agency has already screened some of these technologies that are  
18 not effective or appropriate for landfill use. But the way  
19 they screen them was when effectiveness and implementability  
20 were equal between different technologies, they screened them  
21 out according to cost; but when effectiveness and  
22 implementability were not equal, the most effective and  
23 implementable technology was retained.

24 And the last step of the process is the  
25 technologies that are considered appropriate are then grouped

1 into remedial alternatives that address all the media at the  
2 site. And from those, five alternatives were formed; and these  
3 were listed on your fact sheet.

4                   The first alternative is the No Action  
5 Alternative. And we are required to carry this through  
6 analysis because it serves as a basis to compare all the other  
7 alternatives. Because of the risks that I've just talked  
8 about, the No Action Alternative is not an option here.

9                   The second alternative includes partial  
10 excavation and on-site incineration of the waste lagoon soils  
11 and consolidation of the other site-wide soils with the  
12 incinerated soils beneath a multi-layer landfill cap. And the  
13 ground water would be collected and treated on site above  
14 ground. And other institutional controls would be applied; and  
15 this includes site fencing, connection of some residents to the  
16 Municipal water supply, ground water, surface water and air  
17 monitoring, and deed restrictions for the site property. And  
18 these are just a few of the other common elements between all  
19 the alternatives I'm going to talk about.

20                   The third alternative. This includes  
21 consolidation of all the impacted soils beneath a multi-layer  
22 landfill or hazardous waste cap, collection and above-ground  
23 treatment of the ground water, and again, the institutional  
24 controls such as site fencing, City water connections,  
25 monitoring again in all the media, and deed restrictions.

1 I forgot to mention Alternative 2 -- the  
2 present value cost of Alternative 2 would be 28.7 million  
3 dollars. The present value cost of this Alternative 3 would be  
4 15.5 million dollars.

5 Alternative 4 is exactly like Alternative 3  
6 except that the type of cap used would be a single-layer clay  
7 cap or sanitary landfill cap instead of the multi-layer cap.  
8 All the other elements would be exactly the same. And the  
9 present value cost of that would be 14.8 million dollars.

10 And Alternative 5 is exactly the same as  
11 Alternative 2, the excavation and incineration treatment,  
12 ground water treatment, except that it also includes another  
13 element which is a soil vapor extraction system. And this  
14 would be put in to remove the remaining volatile organic  
15 contaminants. And these volatile organics are very toxic. So,  
16 this would take them out. And the present value cost of this  
17 would be 29 million dollars.

18 Now, these five alternatives -- a  
19 comparative analysis was done on these five alternatives using  
20 these eight criteria. The ninth criteria is actually being  
21 done during the public comment period. At this point the  
22 Agency has put forth Alternative 5 as the preferred  
23 alternative, and Fred is going to explain that alternative in  
24 more detail.

25 MR. FRED BARTMAN: Well, in summary, the

1 alternatives can be narrowed down to two choices, leave the  
2 waste lagoon in place and cap at roughly 15 million dollars or  
3 remove and incinerate the waste lagoon sediments and cap at  
4 30 million dollars. And we recommend to remove and incinerate  
5 the waste lagoon sediments, more specifically Alternative 5.  
6 Even though this remedy is two times more than capping, cost is  
7 not our only consideration. We consider all these -- well,  
8 there's nine criteria that we consider, and here they are.  
9 Sorry about that.

10 EPA puts the highest premium on remedies  
11 that utilize treatment. Special source material that represent  
12 principal threats. EPA believes that the majority of the  
13 hazardous waste is concentrated in the waste lagoon. By  
14 removal of this waste lagoon we are destroying the biggest  
15 threat posed by the site and to the community. Alternative 5  
16 also provides the greatest degree of protection, long-term  
17 effectiveness and permanence. The waste lagoon sediments can  
18 be burned safely with proper design, operation and maintenance  
19 and monitoring.

20 As far as the remedy goes, initially we'll  
21 start off with clearing the demo material from on top of the  
22 waste lagoon. Then we'll inventory and characterize any drums  
23 that are buried within this area or any other hot spots that  
24 are identified. Based on that, we'll develop a set of plans  
25 and specs to burn sediments. We'll set up a trial burn. And



1 for more information on what a trial burn is there are fact  
2 sheets available and we are going to hold a workshop also; it's  
3 being offered in late June.

4 But our remedy is to burn 17,000 cubic  
5 yards of the most highly-contaminated material. That's roughly  
6 the top 5 to 15 feet of soils below the demo material. The  
7 incinerator will be designed to destroy virtually all the  
8 organic chemicals. It will meet Federal and State air  
9 regulations. It will be operated as a hazardous waste  
10 incinerator. It's estimated it will take six months to treat  
11 this material after the trial burns have been done.

12 After we're done the incinerator will be  
13 dismantled and removed from the site. All residuals will be  
14 tested and treated and placed back within the landfill. There  
15 will be constant ambient air monitoring, engineering controls  
16 will be practiced, and minimized air emissions during  
17 excavation. EPA will have a representative on site virtually  
18 on a full-time basis while the incinerator is in operation to  
19 insure consistency with the design and monitoring plans. After  
20 we're done with the incinerator the demo material will be  
21 shredded and placed back within the landfill.

22 Then the site will be capped. And this is  
23 a cross-section of the cap. Initially the waste material will  
24 be compacted and soil hauled in to put the site to grade, and a  
25 barrier layer will be placed. It will consist of clay and a

1 plastic liner and it will prevent any rainwater from coming in  
2 contact with the waste. It will minimize rainwater  
3 infiltration.

4                   Next is a sand layer, and it will prevent  
5 rapid drainage of any rainwater that is in contact with the  
6 barrier layer. And next is a biotic barrier; and the purpose  
7 of that is to stop any critters from damaging the barrier  
8 layer. Next is a vegetation layer, and that will promote  
9 healthy grass growth and promote runoff, prevent erosion and  
10 provide protection from frost damage.

11                   The actual landfill capped area will be  
12 27 acres. Gas vents will also be installed to help control any  
13 gases generated by the landfill.

14                   Next is soil vapor extraction. And what it  
15 is is an extraction well that's installed below the cap and  
16 above the water table, and a vacuum is attached to it; and soil  
17 vapors are brought up to the surface and they're treated in  
18 this activated carbon unit. This will help address the  
19 remaining VOC contamination that's left in the rest of the  
20 landfill and also where the waste lagoon was.

21                   Next is ground water trenches. There will  
22 be two of them. One will -- this is hard to read -- but one is  
23 located -- parallels East Fork Mill Creek, and it will be  
24 designed to intercept any ground water prior to discharge to  
25 East Fork. Ground water will then be treated and discharged

1 into East Fork. This will also be part of the system and this  
2 will help prevent mixture of East Fork water with contaminated  
3 ground water.

4 Another trench is proposed north of the  
5 landfill, and this is designed to intercept any up-gradient  
6 surface water and ground water. And this will help further  
7 minimize any leaching generation from the landfill.

8 Another part of our remedy is an alternate  
9 water supply. The existing water supply will be extended to a  
10 few nearby residents at greatest risk from the site.

11 So, that's all the components of the  
12 proposed remedy. After the remedy has been formally selected  
13 we will most likely give qualified PRP's an opportunity to  
14 design and construct a remedy. Negotiations could last  
15 anywhere from 60 to 150 days. If an agreement cannot be  
16 reached, EPA will consider other alternatives, alternatives  
17 including doing the design and construction using Superfund  
18 moneys. Assuming this is the remedy, design could last up to  
19 two to three years, and construction will likely be over a  
20 two-year period, which brings us to 1997.

21 And with that, I'll turn it over to Sheila  
22 for the next item.

23 MS. SHEILA SULLIVAN: OK. We just wanted  
24 to take a few minutes before going into questions and answers  
25 for discussion of the issues that we know to be community

1 concerns. And they have been -- these are based on previous  
2 comments we've received and questions we've answered.

3                   One of these issues deals with the  
4 incidence of illnesses and cancer to children and teachers at  
5 the Union Township Elementary School. Now, I just want to  
6 explain what we've done here. Through the investigation and  
7 the Baseline Risk Assessment we have characterized the exposure  
8 pathways and determined no complete exposure pathways from the  
9 site to the school. Now, if you recall the four elements of  
10 the exposure pathway, with the air pathway there is little to  
11 no volatilization and chemicals from the soil into the air  
12 because the waste lagoon, which is most of the volatiles, is  
13 covered right now, and the other on-site soils have very low  
14 concentrations of volatiles that are in the upper layers.

15                   Now, the surface water has minimal  
16 concentrations of chemicals; so, that's not felt to be a source  
17 for volatilization. We've also done -- Well, let me get  
18 into the drinking water. The drinking water for the school is  
19 supplied by the Municipal supply; so, there's no ground-water  
20 exposure. And the soil in the schoolyard has been sampled for  
21 all major chemicals including dioxins, and these showed no  
22 detections.

23                   From the characterization we've done we  
24 can't make a connection between exposure to the site while  
25 spending eight hours a day at the school and these illnesses.

1 This doesn't mean that exposure to the site can't occur during  
2 other periods of time while not in school. I mean, if a child  
3 goes to school, then plays in the creek every day after school,  
4 then he's going to be getting exposure.

5 In the Baseline Risk Assessment we looked  
6 at current and future risks due to exposure. Now, cancer would  
7 have had to have resulted from past exposures. The ATSDR, or  
8 the Agency for Toxic Substances and Disease Registry, is the  
9 agency mandated to conduct health assessments which can include  
10 looking at past exposures and current exposures at Superfund  
11 Sites. Through an agreement, the Ohio Department of Health  
12 Bureau of Toxicology and Epidemiology performs that function,  
13 and they are preparing a health assessment document at this  
14 time. I do not know what it contains, I haven't seen it yet,  
15 but it will be ready for review sometime toward the end of the  
16 summer.

17 A second issue that's come up is the air  
18 emission risks posed by excavation of the waste lagoon and  
19 under the preferred alternative. And to address this issue we  
20 did do some air modeling of emissions from the excavation part  
21 of the site and some dispersion modeling to see what the  
22 ambient concentrations of chemicals would be at the fence line  
23 and at other on and off-site receptors, which included the  
24 school. And this modeling was done with the assumption of no  
25 engineering controls being applied and it was also done

1 assuming a six-month period over the summer months. From that  
2 modeling we came up with risks that ranged from a low of two in  
3 ten -- a hundred million, rather, to two in a million, or two  
4 times ten to the minus eight to two times ten to the minus six.

5 So, that gives you now what you know about  
6 the risk ranges and what's acceptable to the Agency. That  
7 gives you an idea. The risks were fairly low.

8 And this is the noncancer risk. It ranged  
9 from 0.1 to 2.6. And with engineering controls applied, the  
10 risks would be well below the low end of the acceptable risk  
11 range.

12 Now, persons performing the excavation  
13 would be required to wear personal protective equipment and  
14 other controls will be applied. But this is just to give you  
15 an idea if you did it under certain conditions with no  
16 engineering controls, these would be the risks.

17 The other issue is the issue of on-site  
18 versus off-site incineration. And we realized that the  
19 Feasibility Study was deficient in that it did not address  
20 off-site treatment of contaminants. I'd like to give you some  
21 of the information about why off-site treatment was not  
22 feasible. And why it wasn't -- this is some of the rationale  
23 that should have been in the Feasibility Study. And one of the  
24 big issues is availability of off-site commercial incinerators.  
25 And this is considered a relatively large amount of soil to

1 incinerate off-site. Commercial-permitted incinerator capacity  
2 is a real commodity right now because the environmental  
3 regulations were promulgated relatively recently compared to  
4 the amount of time that hazardous waste has been around.

5                   So, right now these facilities are at a  
6 premium. Unfortunately the waste industry hasn't kept up with  
7 the regulations, and arrangements have to be made to do  
8 off-site treatment. We would be probably waiting a long time.  
9 I've been quoted three to five years before the waste could be  
10 incinerated off-site. And one of the considerations is not  
11 wanting to leave an excavation site open for a long period of  
12 time.

13                   Another part of this rationale is the issue  
14 of transportation of the waste off-site and those hazards  
15 associated with that. The other issue is that there is -- the  
16 Agency has much less control over the processing of the waste.  
17 If there's any problems with holdups or permitting, we cannot  
18 manage the time schedule and we are pretty much at the mercy of  
19 when these incinerators are available. So, basically you lose  
20 control over the process.

21                   And one of the last issues, too, that  
22 figures into this is cost for off-site incineration; and this  
23 is very high.

24                   Another item which came up which has come  
25 to our attention is the risks posed by the stack emissions from

1 incinerators and who would be impacted by that. And these  
2 risks can and will be modeled. Our general experience shows  
3 that these risks will be insignificant compared to the  
4 air-emission risks from the excavation part of the process.  
5 So, this is what generally happens, and we felt comfortable  
6 with the fact that the air excavation risks were fairly low.  
7 But again, this issue can be addressed further along with other  
8 issues in the incineration workshop later in June.

9 With that, I want to give it back to Cheryl  
10 here.

11 MS. CHERYL ALLEN: OK. We're going to open  
12 it up to question and answers right now. And if you can stand  
13 and identify yourself. And let me remind you that now is the  
14 time to ask questions, because when we get to the public  
15 comment portion of the meeting it's just comments and  
16 statements and thoughts; we can't respond to them. So, now is  
17 the opportunity to ask questions.

18 Sir? Give a name and address.

19 MR. LAWRENCE BERKLEY: My name is  
20 Lawrence Berkley, 9972 Thornwood Court, Cincinnati, 45241. You  
21 mentioned the option of off-site incineration and the  
22 difficulties in getting capacities of off-site incinerators.  
23 But isn't it true that many of our incinerators in this state  
24 are being used for out-of-state hazardous waste? Are we being  
25 asked to accept an on-site incinerator here when other states



1 are loaning out incinerator capacity?

2 MR. FRED BARTMAN: Well, I guess my  
3 question -- well, my answer is, "Well, how long did they really  
4 have to wait in order to get this capacity?" And can you  
5 repeat the question, please? I'm sorry.

6 MR. LAWRENCE BERKLEY: Very  
7 straightforward, are we being asked to consider an on-site  
8 incinerator -- One of the reasons is that you're saying it's  
9 difficult to get capacity off-site incinerators in the State of  
10 Ohio. My question is is that capacity being used by  
11 out-of-state sources for hazardous waste?

12 MR. FRED BARTMAN: Yes, it is.

13 UNIDENTIFIED SPEAKER: Is that fair? So  
14 there is no priority for Ohio to have access to hazardous waste  
15 incinerators for Ohio hazardous waste; they would have to wait,  
16 as Sheila said, approximately five years, maybe?

17 MR. FRED BARTMAN: Yeah, currently three to  
18 five years.

19 MS. SHEILA SULLIVAN: I don't think there's  
20 any priority given to in-state waste because the commercial  
21 incinerator is located in the state necessarily. Ideally,  
22 sure, because you wouldn't have to transport it very far. I  
23 just said I don't believe there is any priority given to  
24 in-state waste to a commercial incinerator that happens to be  
25 located in the State of Ohio. I mean, ideally that would be

1 great because then it wouldn't have to be transported to  
2 another state because the costs are very high for  
3 transportation, the potential for accidents.

4 MR. LAWRENCE BERKLEY: Could I come back on  
5 just that one point? If you put the risks for on-site  
6 incineration back-to-back with off-site incineration, how do  
7 they work? Forgetting cost, forgetting availability, just how  
8 do the risks compare?

9 MS. SHEILA SULLIVAN: Well, I think the  
10 comparison would be insignificant because the major risk here  
11 is risks from excavation. Those overshadow incineration risks  
12 by far, and whether we had on-site or off-site excavation, it  
13 would still occur. And that's where the majority of risks  
14 would be. So, I don't think the on-site versus off-site is as  
15 big an issue really. And some of the other points that I  
16 mentioned earlier overshadow off-site in that you lose the  
17 control; you don't have -- you have an open excavation area.  
18 The cost issue is another, transportation.

19 MR. LAWRENCE BERKLEY: Well, you say that  
20 on-site incineration is not a risk item, but, in fact, doesn't  
21 Ohio law say that you will not site a hazardous waste  
22 incinerator within 2000 feet of a school? Was that rule  
23 created on the basis of risk to the public?

24 MR. MARK SHEAHAN: I'll try to respond to  
25 that, Mark Sheahan with the Ohio EPA. I'm not familiar with

1 the exact site criteria for a hazardous waste incinerator with  
2 regard to proximity to a school. That may well be the case.

3 MR. LAWRENCE BERKLEY: I think it's -- you  
4 mentioned that the risks of incineration were insignificant  
5 compared with the excavation. How can they be insignificant if  
6 there was a rule that says you can't have such an incinerator  
7 close to a school?

8 MR. MARK SHEAHAN: Well, I think the rule  
9 drafted that you're after is blanket regulations to be  
10 protective without looking at a site in extreme detail. And I  
11 think that is what is occurring here. We have a site that a  
12 great deal of investigation has occurred at and they have  
13 performed some significant air emissions modeling to make that  
14 determination whether or not there is a significant risk  
15 associated with it -- or they will -- with regard to the  
16 incinerator. If that modeling should suggest that indeed the  
17 risks are unacceptable with regard to the established standards  
18 they have to look at, then certainly the remedy would have a  
19 second look taken at it.

20 MS. SHEILA SULLIVAN: Also that's assuming  
21 that there is excavation occurring at every place that there is  
22 incineration; and they don't always co-occur. So, you can't  
23 always assume that there's going to be air excavation risks  
24 where you have an incinerator as well.

25 MR. FRED BARTMAN: Yeah. I'm not familiar

1 with that rule, either. I don't know if there is any exception  
2 to that, if you did do a Risk Assessment, whether it could be  
3 less, or if it applies to permanent incinerators as opposed to  
4 a temporary incinerator. And another thing I'd like to point  
5 out, assume it does have to be 2000 feet away from the school.  
6 What you see in the FS is a conceptual -- what it might look  
7 like. What is actually built might be a lot different. Right  
8 now it's proposed to be built in a heavy-metal storage area,  
9 which I believe is within the 2000 feet. It could be feasible  
10 to site it somewhere else where it's outside of 2000 feet.

11 MR. LAWRENCE BERKLEY: There are not too  
12 many places on that site.

13 MS. CHERYL ALLEN: Go ahead.

14 MS. KATHERINE STOKER: I have two  
15 questions. It was a little hard -- My name is  
16 Katherine Stoker. I live at 6979 Hidden Ridge in West Chester.  
17 I have two questions. One is it was a little hard to  
18 understand if you were saying that you were going to do a risk  
19 evaluation comparison between each of the proposed  
20 alternatives. Did I hear you say that? Because there was none  
21 in the Feasibility Study. Did you say you were going to? That  
22 was my first question.

23 And the second question was there was  
24 reference made to full-time monitoring of the site to insure  
25 children don't go over and play. When you say "full-time

1 monitoring", are you talking about full-time monitoring when  
2 the workmen are there eight hours a day, or are you talking  
3 twenty-four hours a day, seven days a week to insure that that  
4 occurs, people don't go wandering about and perhaps seriously  
5 injure themselves?

6 MS. SHEILA SULLIVAN: The first part of  
7 that question -- could you repeat the first part again about  
8 risks?

9 MS. KATHERINE STOKER: The first part of  
10 the question, in the Feasibility Study I am not aware if there  
11 was a comparison of the risks which the surrounding community  
12 would experience between the different proposed alternatives.  
13 There were evaluations of (inaudible) and there were some  
14 evaluations where you proposed one, but I did not see a  
15 comparison of the risks between the proposed alternatives.

16 The other was just how much protection of  
17 the site are we going to have? You said it was full-time.  
18 Could you explain what "full-time" means to you?

19 MS. SHEILA SULLIVAN: No, there wasn't a  
20 risk comparison that was laid out for each of the alternatives.

21 MS. KATHERINE STOKER: So, they were not  
22 compared with respect to risks they might hold to the  
23 community?

24 MS. SHEILA SULLIVAN: But the risks that  
25 would be experienced due to each of those proposals would be

1 below or within any acceptable risk range. What the specific  
2 risks are, you mean? What amount of risk is there if you use  
3 Alternative 2? What's there if you use 3? What's there if you  
4 use 4?

5 MS. KATHERINE STOKER: Yeah.

6 MS. SHEILA SULLIVAN: No, there is not a  
7 separate risk for each alternative.

8 MS. KATHERINE STOKER: You don't plan to  
9 make one?

10 MS. SHEILA SULLIVAN: The way the  
11 Feasibility Study was written --

12 MS. KATHERINE STOKER: That's what I'm  
13 saying.

14 MS. SHEILA SULLIVAN: That's not normally  
15 done in every Feasibility Study.

16 MS. KATHERINE STOKER: Then how can we  
17 evaluate which is the safest alternative?

18 MS. SHEILA SULLIVAN: When I went through  
19 each of the media and explained how much -- what we decided to  
20 do, or what our action objectives were, based on what the  
21 levels were in the media, the alternatives were derived from  
22 our action objectives; and the action objectives were all the  
23 same. So, each of the alternatives that were proposed  
24 equally -- they all meet the action objectives, so they all  
25 meet the same -- basically the same risk criteria. We're

1 allowing a certain amount of risk -- The amount of contaminants  
2 that are able to be left in place that do not pose an  
3 unacceptable risk is going to be -- basically is fulfilled by  
4 all of the alternatives. I don't know if that helps.

5 MS. KATHERINE STOKER: You're  
6 saying -- what you're saying is --

7 MS. SHEILA SULLIVAN: I know what you're  
8 saying.

9 MS. KATHERINE STOKER: -- you don't intend  
10 to because no matter what you do they're all going to be below  
11 acceptable risks, therefore we do not need to evaluate which is  
12 the safest?

13 MS. SHEILA SULLIVAN: Well --

14 MS. KATHERINE STOKER: Should we go on to  
15 Part 2?

16 MS. SHEILA SULLIVAN: OK. The second  
17 part --

18 MS. CHERYL ALLEN: About the monitoring.

19 MS. KATHERINE STOKER: You said  
20 "full-time". I understand the Feasibility Study is they would  
21 not be working twenty-four hours a day; they would be working a  
22 more standard week. When you say "full-time monitoring", are  
23 you talking about forty hours a week or are you talking about  
24 twenty-four hours a day, seven days a week so the idle, curious  
25 person doesn't come wandering by and perhaps injure themselves

1 with exposure?

2 MS. SHEILA SULLIVAN: Site security, that  
3 type of thing?

4 MS. KATHERINE STOKER: Yeah.

5 MS. SHEILA SULLIVAN: Yeah, there is  
6 twenty-four-hour security, yes.

7 MS. KATHERINE STOKER: And that's composed  
8 of?

9 MS. SHEILA SULLIVAN: Whatever we want to  
10 make. We could have a security guard. We could put in certain  
11 controls, fencing, that type of thing. Then we could also have  
12 personnel as well.

13 MS. CHERYL ALLEN: That would be part of  
14 the design process. Once we decide how we're going to fence it  
15 out, then we would position people. That decision would be  
16 made at that point, how many people we would have there. But  
17 it would be twenty-four hours.

18 MS. KATHERINE STOKER: You would have  
19 people there twenty-four hours a day for the five or seven  
20 years that it would take?

21 MS. SHEILA SULLIVAN: Right.

22 MS. CHERYL ALLEN: The lady in the back.

23 MS. CINDY RUSCHER: My name is  
24 Cindy Ruscher. I live on Topridge. And part of your  
25 alternative was deed restriction. But you also said that your



1 risk levels increase with development of that land. And I'm  
2 concerned as to who'll hold deed to that land and ownership and  
3 how it will be used in the future and who will police the use  
4 and how development will be prevented in the future.

5 MS. SHEILA SULLIVAN: The deed restriction  
6 is to prevent any excavation at the site and to prevent  
7 installation of any types of drinking water wells. In the Risk  
8 Assessment the assumption of development on the buried waste  
9 lagoon area was a very conservative assumption. That probably  
10 would never happen. However, as far as what the regulations  
11 are, I mean, that would be what the deed restrictions are, that  
12 there could be no development or excavation. So, that was kind  
13 of -- that was a hypothetical scenario when I brought up the  
14 residential development of the waste lagoon.

15 MS. MARGE GIBSON: My name is Marge Gibson.  
16 I live on Chinook Drive. My question is about the incineration  
17 process itself. Is this something that is carried on  
18 twenty-four hours a day? Once they light these incinerators do  
19 people work twenty-four hours a day or do they just light it  
20 one day, close it down, light it at 8:00 and close it down at  
21 5:00 each day? I think the answer is "Yes".

22 MR. BILL TROXLER: Systems that operate  
23 this twenty-four hours a day, that's a normal installation.  
24 There have been times that systems cannot operate around the  
25 clock, so that's something that would be considered during the

1 remedial design.

2 MS. MARGE GIBSON: Could you tell me is  
3 this true: I've been told that in order to operate these  
4 safely they have to reach a certain temperature and that it is  
5 not possible to reach that temperature by turning them off and  
6 on daily; that once you get to that temperature you have to  
7 keep it there and use it continuously. Is that true or not?

8 MR. BILL TROXLER: That's normally true.  
9 You have to keep them hot. It takes several hours to heat  
10 these up. If there is a situation where they are not  
11 operating, they normally fire them on fuel just to keep the  
12 system hot, but they would not necessarily fire waste. But  
13 they would keep them hot around the clock.

14 MR. DAVID GREGORY: David Gregory,  
15 2052 Thistlewood Drive. My question regarding incineration is  
16 do the current EPA air-monitoring regulations call  
17 for -- should there be an emission that is above what the  
18 acceptable level is, does it call for immediate shutdown of the  
19 incineration process, or does it only allow for them to put  
20 forth a report at some future time that, in fact, they did  
21 violate the air-quality regulations?

22 MR. MARK SHEAHAN: With regard to the State  
23 regulations, it would require continuous monitoring of certain  
24 parameters of emissions coming out of the stack. If those are  
25 exceeded within certain guidances by the equipment that's

1 monitoring that, then people will be alerted and there will be  
2 a control panel that will alert somebody, and corrective action  
3 would be taken to correct the problem. If it's something that  
4 really can't be corrected by tweaking the system, making  
5 adjustments, then there would be an established protocol  
6 to -- Well, first of all, there is automatic waste-feed  
7 shut-off systems that would cut off the waste feed if it was  
8 operating outside an established standard. And if it was  
9 something that could not be corrected, then the kiln would be  
10 shut down. Generally that's done gradually so that it's not  
11 damaged. But waste-feed shutoff is engineered to be automatic  
12 for certain exceedances.

13 MR. DAVID GREGORY: What lengths of time  
14 are we talking for exceedances? Can they exceed for eight-hour  
15 periods for adjustment or --

16 MR. MARK SHEAHAN: No.

17 MR. DAVID GREGORY: Is that nonregulated  
18 other than the fact that they're not to exceed?

19 MR. MARK SHEAHAN: It would depend on what  
20 exceedance there is. But for the ones that are really critical  
21 they -- it's virtually automatic if it's exceeding outside the  
22 established parameters.

23 MS. CHERYL ALLEN: I think it would be  
24 helpful to just briefly explain what a rotary kiln incinerator  
25 is and how it works.

1 MR. BILL TROXLER: Just a brief overview of  
2 how the incineration process would work. There's several types  
3 of incineration systems that are used. This is a diagram of a  
4 rotary kiln which is probably the most common type on the  
5 Superfund Sites. The soil feed is prepared ahead of time.  
6 It's screened; it's put through various types of systems to dry  
7 the soil, blend it so there is a fairly homogeneous feed  
8 material that's fed into the kiln.

9 A kiln consists of a big, metal cylinder  
10 with brick inside with a burner on one end of the kiln. The  
11 soil is fed in and the flame passes over the material and the  
12 cylinder rotates. And they're inclined just a little bit,  
13 maybe three degrees. And as the kiln rotates, the material is  
14 transferred through. The gases that are generated both from  
15 the burner and from the combustion of the organic materials and  
16 waste pass into a secondary combustion chamber which is another  
17 combustion chamber that operates at a high temperature to  
18 destroy the organics. The temperature is monitored. There are  
19 also a number of other parameters measured at those locations.

20 Then it goes to a gas-cleaning system  
21 again. There are various types of systems used. Bag houses  
22 are very common. Wet scrubbers are used with some contractors,  
23 and it depends on the application. Gas then goes to a fan and  
24 blower and blows the clean gas up the stack.

25 To answer your question that you asked, the

1 Ohio EPA -- generally in the regulatory approval process there  
2 are a number of permit limits that are established. If those  
3 permit limits are exceeded, there can be automatic waste-feed  
4 cutoffs. Those are specified in the permit. And the time  
5 delays are specified in the permit. Some of those can be  
6 instantaneous; as soon as it exceeds, the waste feed has to cut  
7 off and it has to be brought back within limits before waste  
8 can be introduced. There may be some that have a slight time  
9 delay from a minute to two minutes, typically.

10 An eight-hour time delay? I can't imagine  
11 anything having a time delay of that time length. But there  
12 are a few parameters that have time delays in the order of a  
13 minute or two. There may be some parameters that require  
14 operators to take action, but don't necessarily require  
15 waste-feed cutoffs. Those are typically parameters that would  
16 not be considered to be dangerous to health or the environment.  
17 Does that answer your question?

18 MR. CARL MORGENSTERN: Carl Morgenstern,  
19 5759 Woodbridge, West Chester. There would be plans or  
20 specifications for these contracts; is that right?

21 MR. BILL TROXLER: Yes, sir.

22 MR. CARL MORGENSTERN: Would that be let  
23 off of the priority contractors or is the Federal Government  
24 going to oversee them do it?

25 MR. BILL TROXLER: The normal procedure on

1 the Superfund Site cleanups is to go through a remedial design  
2 process. During the remedial design there are general  
3 specifications that are established that this machine has to  
4 meet; and those will be specifications like the maximum amount  
5 of carbon monoxide that can be emitted to the atmosphere, the  
6 maximum amount of articulates, the maximum amount of gases,  
7 minimum operating temperatures, minimum gas resin times.  
8 Generally those are put into the design package.

9 MR. CARL MORGENSTERN: Like the Ohio EPA  
10 does all the time?

11 MR. BILL TROXLER: Yes, both the Federal  
12 Government and some State Governments have.

13 MR. CARL MORGENSTERN: My question is about  
14 construction of this incinerator. You'll have plans and specs  
15 that cost a lot of money. Is that up for bid?

16 MR. BILL TROXLER: There are currently  
17 about seventeen different contractors that have transportable  
18 or mobile incinerators that have been built. I would expect  
19 that someone would -- there would be a bid let normally and  
20 those contractors would be allowed to bid on the project. And  
21 they would go through a technical evaluation and a  
22 bid-evaluation process. As long as their equipment met the  
23 performance specs, the contract would be awarded on that basis.  
24 It's not a situation where a complete detailed design would be  
25 prepared by the EPA or a consultant, and then someone built a

1 system to those specifications. It's usually called a  
2 performance specification. The system has to meet these  
3 requirements, then the project is let out for bids.

4 MR. CARL MORGENSTERN: Does the public have  
5 any input into whom that contract is awarded?

6 MR. FRED BARTMAN: No. Only EPA does.

7 MR. CARL MORGENSTERN: Which EPA?

8 MR. FRED BARTMAN: U.S. and Ohio also,  
9 both.

10 MR. CARL MORGENSTERN: Will we know in  
11 advance who the bidders are and the names? Will there be a bid  
12 list publicly announced?

13 MR. FRED BARTMAN: Bill tells me it's  
14 normally released, yes.

15 UNIDENTIFIED SPEAKER: Prior to the  
16 decision?

17 MR. BILL TROXLER: It's normally available  
18 for anyone to bid on. There is a remedial design package put  
19 together. It's a notification that goes out to interested  
20 contractors. And anyone who's qualified is allowed to bid.

21 The process for evaluating those bids is  
22 generally a technical evaluation and a cost evaluation. The  
23 Agency will go through and they will rank the proposals on a  
24 technical basis and give a score from the most appropriate  
25 technology down. They will also do a cost evaluation. And the

1 final award --

2 UNIDENTIFIED SPEAKER: How about prior  
3 performance?

4 MR. BILL TROXLER: Prior performance can be  
5 a criterion. The Agency can include what criteria they want in  
6 the bid-evaluation process. And prior performance is quite  
7 often a very strongly considered factor in the evaluation.

8 MR. CARL MORGENSTERN: Let me ask one other  
9 question. The lady back here asked the question about  
10 restrictions on the deed. You have to own the property. Who's  
11 going to have title to this land after we put 30 million  
12 dollars into it? Is it going back to the Skinners who caused  
13 this trouble in the beginning?

14 MR. FRED BARTMAN: I'm sorry. I can't  
15 really answer that question. Could you please put it in as  
16 part of a comment and we will respond to it? Is that fair?

17 MR. CARL MORGENSTERN: Well, I think the  
18 lady had a good point. If you want to have restrictions -- You  
19 have to own the land. It's a restriction on the land.  
20 Chem-Dyne in Hamilton had something like that. And I  
21 understand maybe the Township can take it over, something like  
22 that.

23 MS. CHERYL ALLEN: We'll look into that and  
24 respond to it in the summary, sir.

25 MR. MARK COORS: My name is Mark Coors. I



1 live at 7526 Galway. This is a follow-up to Carl's question.  
2 Number one, presumably I think you used the term PRP's won't  
3 come through with money to fund this entire cleanup, which  
4 means the Superfund moneys will most likely be utilized. Is it  
5 feasible that the Skinners would be effectively put into  
6 bankruptcy and their property seized as an asset to help pay  
7 for these clean-up costs?

8 MR. FRED BARTMAN: Well, assuming the Fund  
9 is used to build this remedy -- Eventually it will all end up  
10 in cost recovery. And to what extent who pays for what, I  
11 really don't know. That's for the Court to decide. To the  
12 extent what Skinners might pay, I really don't know. It's for  
13 a judge to decide.

14 MS. CHERYL ALLEN: Sir?

15 MR. GARY CAMPBELL: Yes. I'm  
16 Gary Campbell, President of the Lakota School Board. You've  
17 acknowledged that we sent a letter. A couple of questions I  
18 guess that I didn't hear an answer to. And your Risk  
19 Assessment, particularly on the incinerator, is low. What  
20 about the Risk Assessment if you run into problems on  
21 excavation? How will you notify the school when a problem  
22 occurs, if a problem occurred; or do we find out about it  
23 afterwards? That would be one question, about a notification  
24 process. And also the time frames in which the actual  
25 excavation would occur?

1 MR. FRED BARTMAN: OK. Again, that's more  
2 of a design question. As part of the plans and specs, there  
3 will be a site safety plan where it will cover the material  
4 that you just mentioned. And, you know, I couldn't say what it  
5 would be.

6 MR. GARY CAMPBELL: Will we have a chance  
7 to input into that plan as far as notification and how we want  
8 to handle kids on the playground if that's an issue?

9 MS. CHERYL ALLEN: I'm sorry? She was  
10 whispering.

11 MR. GARY CAMPBELL: Will we have a  
12 chance -- school officials have a chance to input into that  
13 program in terms of notification of when you're going to be  
14 doing excavation?

15 MS. CHERYL ALLEN: Certainly. As part of  
16 community relations we'll be out to talk to the school  
17 officials. In fact, we're planning to meet with the faculty of  
18 the school that's directly across from the site ahead of time  
19 when we have our incineration workshop. So, any type of  
20 activity that will be occurring that's directly going to affect  
21 that area, we will be in constant contact with them.

22 MS. LINDA SCHNEIDER: Linda Schneider,  
23 8819 Cincinnati-Dayton Road. I'm one of the few residents that  
24 have well water still. And from what you've said, it's still  
25 going to be quite a few years before any of this even begins.

1 I'm wondering if the water hookups are something that are done  
2 earlier in the process or do we have to go through the entire  
3 process to help half a dozen individuals with the water  
4 situation?

5 MS. SHEILA SULLIVAN: That could be  
6 addressed sooner. I mean, that's something that once we  
7 remedy -- It's a part of every remedy, and whatever remedy is  
8 selected, that could be prioritized; it doesn't have to happen  
9 near the end; we could determine when it can happen. So,  
10 that's not a problem.

11 MS. MELANIE WITTMAN: Melanie Wittman,  
12 8410 Darlene Drive. My main concern is that maybe I'm not  
13 quite sure if we're not going to have a say on what the  
14 incinerator is going to be like and what kind of scrubbers  
15 they're going to have and what kind of system is going to be  
16 used, and we're not going to have any comment period after it's  
17 built, after it's chosen; we're not going to be able to say,  
18 "That design is OK," or, "This is OK." And it just seems  
19 awkward to me that we're here having all these questions, and  
20 some of our questions aren't being answered and can't be  
21 answered because they can only be answered according to if we  
22 know what the incinerator is exactly going to be like. And my  
23 concern is we're not going to get that comment period.

24 MS. CHERYL ALLEN: That's the reason we're  
25 here. No. See, you have -- the reason why we're here is to

1 get your comments. Things that we can't respond to, we're  
2 going to tell you we can't respond to them. That's what the  
3 Responsive Summary is for. We go back and investigate. This  
4 is part of the whole process. You are giving us information on  
5 things that we need to go back and investigate on. So, to say  
6 that you don't feel that you're part of the process, you are.  
7 That's why we're here, to get your concerns and your questions,  
8 and then to go back and find out things that we can answer to  
9 respond to you on those things. And you are part of the  
10 process.

11 MR. FRED BARTMAN: You're right. There is  
12 no opportunity for formal public comment during the design.  
13 And what we can do is hold meetings and more workshops as we go  
14 along, so --

15 MR. BILL RACER: I have a question. I  
16 haven't heard anything from a taxpayer's viewpoint.

17 MS. CHERYL ALLEN: Sir, could you speak up?

18 MR. BILL RACER: My name is Bill Racer. I  
19 live at 7193 Timbermill Drive in West Chester. I have a  
20 question from a taxpayer's viewpoint. We're talking 30 million  
21 dollars here practically. We're talking 1997. And there's  
22 many cases where -- in those cases these costs ripple up  
23 significantly. You can take Fernald and look at that in the  
24 millions of dollars and it's up to 20 billion dollars. And I'm  
25 not saying it's going to be like that here, but one of the

1 things that's amazed me about this site -- and by the way, I  
2 think it's about time that the regulatory agencies have shown  
3 up. It's been a long time in getting attention to this site.  
4 I know there's other priorities, and I recognize that, however,  
5 one of the things that amazes me is that all the way from  
6 Butler County to the State of Ohio, et cetera, there's been  
7 slowness in moving on these issues. You're responding now, but  
8 the problem that I have is the PRP's, principal responsible  
9 parties, either they're going to pay or the taxpayers or the  
10 Superfund is going to pay. Based on the past reluctance,  
11 slowness, et cetera, how much pressure -- it's too bad you  
12 don't have an attorney here tonight from the U.S. EPA to  
13 respond to this -- but how much pressure are you going to put  
14 on the PRP's to pay for this? I think it's ridiculous. I  
15 think it's a foregone conclusion that it's going to go from  
16 30 million on up.

17 MR. FRED BARTMAN: Well, first of all, even  
18 if we do use Superfund, it eventually does end up in court.  
19 And those costs will hopefully be recovered. And as far as  
20 what pressure is put on PRP's, it's probably in their best  
21 interest to conduct the cleanup. They probably can do it  
22 cheaper than the Government can, and that's incentive. They  
23 can probably do -- they'll do just as good a job as we can, but  
24 cheaper.

25 UNIDENTIFIED SPEAKER: Isn't there a triple

1 damage if they fail to do it, too?

2 MR. FRED BARTMAN: Another option is to  
3 issue an administrative order which says, "Do this or  
4 we'll -- you could be libel for triple the cost." Well, if the  
5 Government went ahead and did it, they could be liable for  
6 triple the cost. So, if we do issue an order, it's in  
7 their -- they're taking a big -- If we do issue an order and  
8 they don't comply with it, they're taking a big chance; they  
9 could be paying triple the cost when it does go to cost  
10 recovery.

11 UNIDENTIFIED SPEAKER: I have one other  
12 question. I know in some states the counties are held as  
13 PRP's. Is that being considered here?

14 MR. FRED BARTMAN: Well, if they  
15 were -- No.

16 MS. LISA WHITTAKER: Yes. My name is  
17 Lisa Whittaker. I reside at 6976 Gary Lee Drive. Some people  
18 call me an MB. You can call me whatever you like. I've read  
19 your Feasibility Study and I think it needs to be the first  
20 thing you put in the incinerator. There are too many  
21 unanswered questions. First of all, whose response weighs  
22 more, whose comments weigh more, the folks who live nearest the  
23 site, our elected representatives, or the responsible parties?  
24 That's my first question. Whose comments will weigh the most?

25 MS. CHERYL ALLEN: If you're talking about

1 comments between residents and local officials, we don't weigh  
2 whose --

3 MS. LISA WHITTAKER: OK. I have been  
4 around the neighborhood in Old West Chester, and what I'm  
5 hearing from people is you've never answered the question about  
6 are there explosives, are there munitions, is there nerve gas?  
7 We better consider whether it is feasible to even excavate the  
8 site before we decide to build that mousetrap.

9 We have worked with regulatory agencies.  
10 I'm a member of CLEAN. I'm very proud to say that. We worked  
11 with Ohio EPA. We got a permit condition on a medic waste  
12 incinerator that says you shall not burn radioactive materials  
13 of any kind. It doesn't prevent it. It's documented. There's  
14 nobody protecting this community. If you want to believe the  
15 regulations will protect you, you take the paper they're  
16 written on and you stick it over your face. There's nobody to  
17 enforce --

18 MR. FRED BARTMAN: Regarding what you said  
19 about the bombs and nerve gas and mustard gas that may or may  
20 not be at Skinner Landfill, well, there is good reason to  
21 believe that is not in the waste lagoon. For one, when  
22 Ohio EPA investigated the waste lagoon back in 1976 they did  
23 not encounter any of that material.

24 MS. LISA WHITTAKER: Were there flame  
25 throwers?

1 MR. FRED BARTMAN: Yes, there was.

2 MS. LISA WHITTAKER: How many? Who has a  
3 flame thrower in their Municipal trash? This to me is a clear  
4 indication that there is Department of Defense waste; and you  
5 better talk to DOD and you better base your Feasibility Study  
6 on whether there is a chance this stuff is in there. You've  
7 never addressed it.

8 MR. FRED BARTMAN: OK. And we have looked  
9 more into the history of the waste lagoon. And the waste  
10 lagoon was nothing but a pond. And truck drivers would back  
11 up, dump their drums and take it back with them or the site  
12 operator might dump them in there and recycle the drums. And  
13 we don't think it was -- it was also used to rinse out drums  
14 and rinse out tankers reportedly from Chem-Dyne. So, we think  
15 it's highly unlikely it was used for --

16 UNIDENTIFIED SPEAKER: We wanted better  
17 lives.

18 MR. FRED BARTMAN: Now, wait. At the time  
19 when they did that inspection there was aerial photos that  
20 showed there was a whole bunch of drums on the surface near the  
21 waste lagoon. Now, when word got out that Ohio EPA was going  
22 to investigate that area, all of a sudden there was a lot of  
23 digging or a lot of burying. And I really don't think it  
24 was -- and that's how I think the flame -- you know, I'm  
25 speculating here -- but I think that's how the flame throwers



1 got there. And the drums, it was used to dump liquid material  
2 and wash it out.

3 MS. LISA WHITTAKER: I would like to say  
4 that you folks have been wonderful to work with and I don't  
5 have any hard feelings against you. The problem is we had some  
6 high-paid consultants who asked the wrong question. Instead of  
7 asking, "How do we make it safe and keep the emissions down,"  
8 they decided they would build a big magic machine. And the  
9 problem with the magic machine is you're going to burn the  
10 toxics along with the soil. You can burn the soil, but when  
11 you try to capture the toxics, the heavy metals out the back  
12 end, you're guaranteeing that we're going to be exposed to this  
13 stuff that's in the hole. It's in the hole. Now you're going  
14 to put it in the air. There is no way that you will build this  
15 thing with less than two scrubbing devices, a dry bagger at the  
16 very minimum because it will capture a lot of junk without  
17 producing the waste water. Then you need to back it up with  
18 the wet scrubber to get the stuff the dry bagger missed.  
19 You've got to address excavating based on whether or not  
20 there's DOD waste. First go back, do your Feasibility Study,  
21 do the job you're paid to do; then let us comment. Give us  
22 something we can comment on. This is garbage. You've glossed  
23 over all of this stuff. You don't hand us the representative  
24 decision and a Responsiveness Summary and say, "We addressed  
25 your concerns." I've seen that. I've been a part of that. I

1 don't put my trust in any Government agency any longer. I  
2 trusted Ohio EPA, and they put an incinerator down there. They  
3 promised it wouldn't burn radioactive material. They promised  
4 it would comply with the 1991 air regulations; and the director  
5 reneged on his word. It's burning radioactive materials and it  
6 doesn't comply with any air regulations. I trusted one time;  
7 twice, no way.

8 MS. PATTI THOMAS: My name is Patti Thomas,  
9 9720 Talltimber Drive. I contacted both Ohio and Federal EPA  
10 and gave them information about a member of this community who  
11 told me several years ago at a Meet the Candidates night that  
12 he personally was in charge of a Military operation that moved  
13 munitions from the Sharonville Depot to the Skinner Landfill.  
14 I would like to know who talked to that person and what the  
15 response was.

16 MS. CHERYL ALLEN: Can you tell me who you  
17 talked to?

18 MS. PATTI THOMAS: I've told lots of  
19 people. Several people up there know the person's name. I  
20 want to know who talked to him and what was his response?

21 MR. FRED BARTMAN: Well, the answer to that  
22 question -- I'd be willing to take testimony at a deposition at  
23 any time.

24 MS. PATTI THOMAS: Did you call the person  
25 whose name I gave you?

1 MR. FRED BARTMAN: Yes.

2 MS. PATTI THOMAS: What was his response?

3 MR. FRED BARTMAN: He wanted nothing to do  
4 with it.

5 UNIDENTIFIED SPEAKER: He didn't answer  
6 your questions?

7 UNIDENTIFIED SPEAKER: Can he be  
8 Subpoenaed?

9 MR. FRED BARTMAN: He had his own reasons.

10 MS. PATTI THOMAS: What he told me was he  
11 was concerned about giving this information because of what it  
12 would do to real estate values in the community because he was  
13 concerned about building a VFW hall and he didn't want to get  
14 the realtors discouraged and have them refuse to contribute to  
15 his VFW hall. That's why we have munitions that nobody knows  
16 about.

17 MS. DOVE LONG: I just want to know where  
18 were the two flame throwers found? Were they found in the  
19 lagoon? I'm sorry, my name is Dove Long, 6354 Melrose Way.

20 MR. FRED BARTMAN: To answer your question,  
21 I don't know exactly where it was located.

22 MS. DOVE LONG: I think that's something  
23 you should look into. Also I have a question about the  
24 six-to-nine-month incineration period that your proposal says.  
25 Is this supposed to happen during the summer? Are you saying

1 the kids are going to be out of school for months, or do it  
2 over three consecutive summers? My toddler will be in school  
3 by then.

4 MS. SHEILA SULLIVAN: What I was talking  
5 about was when the excavation is done we modeled it during the  
6 summer assuming during the summer months.

7 MS. DOVE LONG: I'm concerned about the  
8 incinerator. We're not all too happy with this incinerator.  
9 When is the incineration going to be done?

10 MS. SHEILA SULLIVAN: We can work -- it  
11 depends on the schedule; and that depends on capacity  
12 availability. If it was off-site -- that's the whole reason.  
13 If we have control over the schedule, we can determine when it  
14 can be incinerated.

15 MS. DOVE LONG: If you have it off-site,  
16 then it won't impact the school. If we're talking three to  
17 five years at least anyway to get it set up, why don't we ship  
18 it off-site? That was the time period you were given by  
19 off-site contractors.

20 MS. SHEILA SULLIVAN: Yeah. Those were  
21 estimates.

22 MS. DOVE LONG: That's what we're talking  
23 about if we build it on-site; is that right?

24 MS. SHEILA SULLIVAN: It would -- yeah, it  
25 would be a similar timetable, I agree. But part of it also has

1 to do with the length of time to incinerate the material. We  
2 could work with an off-site incinerator and it would be three  
3 to five years before we could do it. But then it's also the  
4 time that we have to incinerate it. We can't be guaranteed  
5 that with an off-site incinerator it would also take only six  
6 months to do, as it would on-site.

7 MS. DOVE LONG: But we're talking about  
8 building an incinerator anyway. Why can't you build it  
9 2000 feet away? Why don't you build it down the road away from  
10 those children? Everyone's children are in one spot. You  
11 should do your best to stay away from those children.

12 MS. SHEILA SULLIVAN: As far as the siting  
13 of the incinerator goes, that has not been determined at all  
14 yet. We will have to go back. What was in the Feasibility  
15 Study was set up as far as the best place for it based on the  
16 topography and everything else. But at the time we were not  
17 aware of the 2000-foot restriction.

18 MS. DOVE LONG: But you're aware that it's  
19 right across the street. It doesn't take a rocket scientist to  
20 figure out that's close to your kids. That's something I hope  
21 you take very seriously.

22 MS. SHEILA SULLIVAN: It will be. And if  
23 we can't find a place to site it, that does not meet the  
24 restrictions, then we either can't site it there, we can't put  
25 it there, or, you know, you have to look into the variance

1 process. But it couldn't be sited there if it can't meet the  
2 requirements; so, we'd have to go to another plan. It's as  
3 simple as that.

4 MS. JAN CAMERON: My name is Jan Cameron.  
5 I live on Lake Lakota Circle in Union Township. I'd like to  
6 back up a little bit and ask the question of EPA, is  
7 incineration the only method that you are willing to use at  
8 this point? In other words, I thought that you were proposing  
9 something to the community and then judging by what community  
10 acceptance would be, then go back and re-evaluate all sides of  
11 your proposals. Or, in other words, are you going to go ahead  
12 and carry through with incineration no matter what all of our  
13 concerns are? Have you made a definite decision that you're  
14 going to build that incinerator?

15 MS. CHERYL ALLEN: No matter --

16 MS. JAN CAMERON: No matter what we all  
17 think, like they did with the BFI incinerator?

18 MS. SHEILA SULLIVAN: As I mentioned, the  
19 eight criteria, we have already done a comparative analysis  
20 with, and with those eight criteria --

21 MS. JAN CAMERON: I know all about  
22 criteria. But answer a simple question.

23 MS. SHEILA SULLIVAN: No. It's just a  
24 preferred -- it's not cast in stone, no. It's just put forth  
25 as a proposal.

1 MS. CHERYL ALLEN: We'd like to take two or  
2 three more questions and go into public comments, please.  
3 Someone who hasn't had a chance?

4 UNIDENTIFIED SPEAKER: I'll save mine for  
5 public comment.

6 MS. JANE DOLE: Jane Dole, 607 Jasmine  
7 Trail. I don't fully understand why Alternative 5 is the  
8 preferred solution. You say you didn't do any risk assessments  
9 of the other solutions, so on what basis do you say that  
10 Alternative 5 is the preferred solution?

11 MR. FRED BARTMAN: I think this really  
12 relates back to a previous question. Alternative 3 is a  
13 capping alternative, and obviously there will be less risk  
14 associated with that compared to Alternative 5. That's the  
15 reason we did run the risk model to see -- to compare them, and  
16 we did factor that into our comparison.

17 MS. JANE DOLE: Did you do a basic model  
18 for 3?

19 MR. FRED BARTMAN: No. We didn't feel the  
20 need to.

21 MS. JANE DOLE: How could you compare them?  
22 I don't understand this.

23 MR. FRED BARTMAN: Well, it's --

24 UNIDENTIFIED SPEAKER: What did you use as  
25 a control?

1 UNIDENTIFIED SPEAKER: No action.

2 UNIDENTIFIED SPEAKER: They crossed their  
3 fingers.

4 MS. JANE DOLE: I do feel that this is a  
5 very, very basic question. Maybe I'm stupid, but at the moment  
6 I don't seem to have an answer, a very simple layman's answer,  
7 about why you think Alternative 5 is preferable to the others.  
8 At the moment you don't seem to be able to answer that  
9 question.

10 MS. SHEILA SULLIVAN: Well, the No Action  
11 Alternative is the control.

12 MS. JANE DOLE: Why is 5 better than 3?

13 MS. SHEILA SULLIVAN: Well, 5, one of the  
14 issues that is there is a statutory preference for a permanent  
15 destruction of principle threats. As I explained what a  
16 principle threat was, the National Contingency Plan stresses  
17 that to permanently destroy the waste is a preferred method  
18 over something that leaves it in place and let's it -- allows  
19 it to leach out or possibly leach out over a longer period.  
20 So, that's one of the big issues. I don't know if that --

21 MS. JANE DOLE: No, that doesn't answer my  
22 question. It is a natural, permanent solution.

23 MS. BETH GARYS: My name is Beth Garys. I  
24 have a general question about these creeks coming off of here.  
25 During the excavation period or incineration period, whatever,



1 I'm assuming at this point any of these creeks our kids should  
2 not be in or near the water -- in the water or, you say, also  
3 not in the creeks, I mean, at this time and for the next five  
4 or seven years or however long this takes?

5 MS. SHEILA SULLIVAN: Are you talking about  
6 the creeks on the site?

7 MS. BETH GARYS: Right. And obviously the  
8 water is flowing off there and going to be coming down further  
9 than just this site area.

10 MS. SHEILA SULLIVAN: Yes. Well, the  
11 surface water and sediment levels in the creeks off the site  
12 would not be a risk. Now, as to whether or not -- The  
13 excavation would be a very controlled process, as excavations  
14 go. I guess it also depends on how the excavation process is  
15 set up and what kind of engineering controls are put in place.  
16 That would happen during remedial design. But the way it's set  
17 up, it should not impact the creeks at all. That's what we  
18 would hope. But if there was a problem, we would advise people  
19 about that ahead of time if they should be concerned about  
20 that. But we don't foresee that.

21 MS. BETH GARYS: If we cap, it will  
22 probably be a problem later on, but if we incinerate --

23 MS. SHEILA SULLIVAN: Eventually over a  
24 long term there is less protection, over a long term.

25 MS. BETH GARYS: Because it's flowing down

1 and around this community, and of course it's going to flow  
2 down into other communities, particularly where we're going to  
3 be living. And there's a creek that flows right behind where  
4 we're going to be living, so I'm just wondering.

5 MS. SHEILA SULLIVAN: We would be doing  
6 surface-water monitoring. So, that's set up as a control to  
7 determine whether there's going to be problems. So, we'll be  
8 doing the monitoring and the results will be available. And if  
9 there was any problem or exceedance of a health risk, the  
10 residents would be advised as to what they should do.

11 MS. CHERYL ALLEN: We're going to take a  
12 couple more questions. Two more, please.

13 MS. KATHERINE STOKER: Katherine Stoker  
14 again. I have two questions. Number one, in your statement  
15 you say, "How does EPA evaluate clean-up alternatives?" And  
16 you include that, "a particular remedy chosen should provide  
17 adequate protection of human health and the environment, that  
18 the risk posed should be controlled through," et cetera,  
19 et cetera. Would you be perhaps considering picking up the  
20 cost of moving the children in Union School to other schools,  
21 in other words, providing Butler buildings at other schools to  
22 move the children out of that area during the course of your  
23 work -- well, during the excavation and whatever it is you plan  
24 to do?

25 And number two -- and this comes back to a

1 question regarding the choice of contractors for  
2 incinerating -- do you evaluate the criminal background of the  
3 contractors, make an evaluation? The reason I ask that is  
4 because two very large companies involved in handling of waste,  
5 (inaudible) and Health Management, Inc., have both paid tens of  
6 millions of dollars in fees, penalties and out-of-court  
7 settlements for violations of environmental EPA pollution laws  
8 and Antitrust laws. And we have a problem here in this  
9 community with trusting companies like that since we have BFI  
10 down the street who appears to be breaking County, State and  
11 Federal EPA laws with impunity. So, we're worried if you let  
12 in somebody with a bad background, you're not apparently going  
13 to enforce -- I don't mean you personally. I know you mean  
14 well and you're working very hard on this -- Our problem is  
15 enforcement of the controls that the gentleman was speaking of,  
16 permits this and standards that and automatic shutoffs. And,  
17 sure, go down the street to Charter Park Drive and we'll show  
18 you permits and automatic shutoffs. It's not happening here.

19                   The first question, are you going to pay  
20 for the relocation of our children for the months when you have  
21 the most active health risk? Was that included in the plan?  
22 Can it be included in the plan?

23                   MS. SHEILA SULLIVAN: It could be included  
24 if the health risks exceeded an acceptable risk level, sure.  
25 But we wouldn't select an alternative where the health risk has

1 exceeded an acceptable risk level in the first place. So, we  
2 don't foresee that something like that would be necessary.

3 MS. KATHERINE STOKER: So, that's a "No",  
4 you've already determined that they aren't at risk there?

5 MS. SHEILA SULLIVAN: Right. But that will  
6 also -- I mean, right. As I say, we wouldn't --

7 MS. KATHERINE STOKER: Part 2, do you  
8 evaluate the criminal background of the contractors bidding on  
9 these jobs?

10 MR. BILL TROXLER: I can't answer that from  
11 the standpoint of -- I know there is precedent and that it has  
12 been done on other Superfund Sites. I'm aware of one site in  
13 particular where as part of the proposal process the proposed  
14 bidders have to disclose any environmental violations or fines  
15 corporate-wide over the past five years.

16 MS. KATHERINE STOKER: Evaluation doesn't  
17 do it. I can show you a list of BFI's evaluations over 70-feet  
18 long, and they still got their permit to burn down the street  
19 here. Just showing violations doesn't do a thing. Are you  
20 going to accept applications from contractors who regularly and  
21 significantly violate criminal laws? Don't talk about just  
22 making them list the laws. Are you going to accept them if  
23 they have those violations?

24 MS. CHERYL ALLEN: I can't answer that.  
25 That sounds like, to me, to be a legal question.

1 MS. KATHERINE STOKER: It sure is.

2 MS. CHERYL ALLEN: And I think that would  
3 be something that would be part of the criteria process, that  
4 we would look into the background of those contractors.

5 MS. KATHERINE STOKER: You have no problems  
6 evaluating them for capability and price, but you say you have  
7 nothing in place to evaluate them with respect to their  
8 criminal backgrounds; is that what you're saying?

9 MS. CHERYL ALLEN: No, I'm not saying that.

10 MS. KATHERINE STOKER: Didn't you say you  
11 were going to evaluate the contractors when they submit their  
12 bids with respect to whether or not they're capable of doing  
13 the job? I thought I heard somebody say that.

14 MR. BILL TROXLER: As part of the remedial  
15 design there is a proposal process; and as part of that  
16 proposal process there are certain criteria that the proposals  
17 are ranked on. Those sorts of issues can be considered in the  
18 proposal process, and there is precedence for that.

19 MS. KATHERINE STOKER: But there is not at  
20 this time and you don't have clearance to put it in?

21 MR. BILL TROXLER: At this point the  
22 remedial design has not been done. That's part of the process  
23 we're going through tonight, is to get input into that process.  
24 At this point there are no remedial design plans that would be  
25 that specific. But it is something that -- It has been done in

1 the past and there is a precedence for that.

2 MS. CHERYL ALLEN: One last question.

3 MS. KRISTIN SMITH: I'm Kristin Smith. I  
4 live at 5738 Golf Crest Drive. I'd like to defer my question.  
5 I have a very important question. I know that man has the same  
6 question. I'd like him to ask it for me.

7 MR. LAWRENCE BERKLEY: I don't know whether  
8 it's the same question. But has the date of the ROD been set?  
9 Can it be moved? And what would it take to move it?

10 MS. CHERYL ALLEN: As far as the date for  
11 the ROD, it has not been set. That's what this process is  
12 about. Based on the public comments we get here, then we go  
13 back and evaluate all those comments and all of that input.  
14 Then we make a decision on when that ROD will be signed.

15 MR. LAWRENCE BERKLEY: The point of my  
16 question is here we see a fairly benign site, it's not going to  
17 blow up, right, as far as we know. But what you can hear  
18 tonight are a lot of very deep concerns about certain technical  
19 issues that have been glossed over in the Feasibility Study,  
20 and it will take some time to get real answers to those  
21 questions.

22 For instance, on the point about  
23 explosives, there's only about two lines that say what is to be  
24 done about explosives on site. That is a very serious, serious  
25 issue, and it could affect the choice of the options that's

1 finally selected. And I don't see at the moment any evidence  
2 that those kind of issues are being adequately addressed, and I  
3 would strongly recommend that the date of the ROD be put off  
4 until all of those issues have been adequately addressed. In  
5 other words, we may well need other meetings of this kind so  
6 people can watch this process progress.

7 MS. CHERYL ALLEN: OK. We're going to take  
8 a five-minute break and then we're going to take your comments.

9 (Public Meeting stood in recess.)

10 (Public Meeting reconvened.)

11 MS. CHERYL ALLEN: We want to take  
12 comments, but we will be here at the conclusion to answer any  
13 questions. So, we won't be rushing out after we get your  
14 comments. When you stand up state your name and address for  
15 the court reporter for the public record.

16 MS. MELANIE WITTMAN: My name is  
17 Melanie Wittman, 8410 Darlene Drive, West Chester, Ohio, 45069.  
18 My concern is that to my understanding you don't really know  
19 what's in the waste fill; you're not sure at all about all the  
20 components that are going to be in there. But you're saying  
21 you might burn it. And my other concern along with that is  
22 when you dig the stuff up and you excavate, are you going to  
23 test it and stamp it before you burn it? Because according to  
24 EPA studies that I've looked into, a lot of these things become  
25 more toxic after you burn them.

1                   And to my understanding also you're going  
2 to take all the ash that is more toxic than what you fed in and  
3 you're going to bury it right back where you got it from. And  
4 to me that doesn't sound like a solution; it's an air problem,  
5 a water problem and a landfill problem again. So, that's my  
6 concern.

7                   MS. BETH HOWARD: My name is Beth Howard,  
8 9740 Farm Crest Drive, West Chester. We've already got a land  
9 polution, water, and now we're going to have a land-excavation  
10 problem. I think it makes no sense to excavate the lagoon  
11 especially when the baseline assessment indicated that there is  
12 virtually no toxicity information available for many of the  
13 compounds that were found in the landfill, 166 different  
14 chemicals. They have kept saying all evening that the  
15 excavation of the lagoon is going to be the riskier thing that  
16 they're going to be doing. They're going to be bulldozing to  
17 remove the debris, operating with steam shovels. God forbid  
18 you hit something that's going to explode. I don't think the  
19 school children can be warned in time to get those kids away  
20 safely.

21                   I have major problems with incineration. I  
22 think it's an outrage that you brought an incineration expert  
23 here tonight and have spent most of the evening trying to sell  
24 us on incineration especially in this community with what we've  
25 been through. I think that Option 3 which provides for the



1 ground water barriers and the capping seems to make the most  
2 sense. The site is not much of a hazard to the residents in  
3 its present dormant state. I think it should be left that way.  
4 I think the waste should be entombed on that site the way we do  
5 asbestos, keep it contained to the site, make sure the ground  
6 water and surface water doesn't leach out the contaminants, and  
7 leave it at that. I think the highest priority should not be  
8 treating the waste; it should be the health and safety of the  
9 current residents of this community.

10 MS. CHERYL ALLEN: Anyone else?

11 MS. KATIE PERSINSKY: My name is  
12 Katie Persinsky, 8595 Monticello Drive, West Chester. I agree  
13 with both of these ladies as far as I don't feel you do know  
14 what's in there adequately enough. I think that the  
15 Feasibility Study has definitely glossed over, bottom line, all  
16 the different options. From what I can see there were  
17 differences in the end result to a degree, but not enough to  
18 justify pumping it up into the air. And like she indicated,  
19 the ash can be just as toxic. So, it's just like if you cap  
20 what's there, you're probably going to be capping just as  
21 dangerous stuff in the end anyway, and meanwhile you're  
22 polluting the air.

23 So, I don't care who you are or where you  
24 live or how much money you have, everybody breathes air. You  
25 can't have an air-tight home. You can't get away from it. So,

1 people that push for this incineration stuff, it's like you're  
2 polluting the only thing that no one can renew. It's not like  
3 a ground spot that you can move away from. It's air. You all  
4 have to breathe it.

5                   Further, I just wanted to stress again the  
6 issue about who is going to be doing all this stuff, not only  
7 who is going to be the incinerator. Obviously there are some  
8 very big misgivings as to several companies due to past  
9 problems and issues that are actually still going on. But  
10 who's going to be doing the excavating, too? We really need to  
11 have the ability to have a say in it. If you want these people  
12 to really accept your proposals, you really need to make us  
13 aware of who you're hiring to do this stuff; because there are  
14 just some people we don't trust and we don't want involved in  
15 this process.

16                   MS. LISA WHITTAKER: My name is  
17 Lisa Whittaker again. I reside at 6976 Gary Lee Drive. As I  
18 stated earlier, I have been through the Feasibility Study and I  
19 do have a lot of problems with it. Again, I'm not angry with  
20 EPA. I'm angry with the consultants who put this study  
21 together for you. First of all, something that everyone needs  
22 to be aware of, sometime last year CLEAN had a meeting with EPA  
23 and Ohio EPA, and it was revealed at that time that  
24 incineration excavation was being considered at the site. And  
25 the consultants at that point were drawing up a Health Risk

1 Assessment not based on any kind of real parameters, but they  
2 were coming up with some figures as far as what public exposure  
3 would be. It was maybe July or August -- June, I think,  
4 of 1991 -- as a result of the figures that the consultants were  
5 putting together, EPA -- I believe Sheila Sullivan stated to me  
6 and Mark Lahar, former Ohio EPA Project Coordinator at the  
7 site, stated to me that EPA was concerned about the results,  
8 the figures that were coming up. And I've never seen that,  
9 what I call a preliminary health assessment. And I'm a little  
10 concerned why that was not included in this Feasibility Study.  
11 And I do understand it was not based on any real parameters,  
12 but EPA essentially went back to the consultant and said, "You  
13 need to make this look better on paper. The risk figures are  
14 too high." That's what I'm guessing they said. And  
15 essentially EPA drew up some parameters, "We'll excavate a  
16 smaller portion of the waste lagoon at one time." I would like  
17 to see that draft health assessment because eventually the  
18 entire waste pit is going to be open and we still will be  
19 exposed to that stuff regardless of what size you're taking out  
20 at one time. Eventually it's all going to be opened up. If  
21 there is any way that I could see that, I would certainly enjoy  
22 a copy of that.

23                   There seems to be some concern about a  
24 school which is located on Cincinnati-Dayton Road. And I think  
25 this is a justifiable concern. Evidently the Ohio General

1 Assembly thought it was justifiable enough to pass a law, Ohio  
2 Revised Code 3734.05, which says that the Hazardous Waste  
3 Facility Board must do several things before they issue a  
4 permit. We're talking about permit process for a hazardous  
5 waste facility. And this is one of the listed regulations that  
6 the federally-paid has to comply with.

7 Now, EPA is not subject to the permitting  
8 process, but they do have to comply with all State and Federal  
9 laws. And what I would like to know is how EPA is going to  
10 meet the siting criteria of 3734.05 having to do with siting a  
11 hazardous waste facility within 2000 feet of homes and  
12 residents? I bet you can't answer that one.

13 Again, I have some serious concerns about  
14 whether the excavation is even feasible. And, of course,  
15 nobody really knows whether the Department of Defense wastes  
16 are on site. The only time that off-site treatment is  
17 mentioned in this study is as it pertains to either radioactive  
18 materials or Department of Defense waste. If we discover  
19 explosives or radioactive materials, those are suitable to put  
20 on a truck on the road, carry them off to supposedly  
21 incinerate, I don't know, treat them somewhere else.

22 Now, I told you before I'm an MB. When one  
23 of these things comes to your back yard you'll understand where  
24 I am. And I don't want this thing in your back yard any more  
25 than I want it in mine.

1 had two kids -- I asked my wife, "What would you do if we were  
2 going to send two kids to Union School?" She said, "I'd yank  
3 them out right away." We're begging you to help us. We can't  
4 turn to the other place. We turned to Ohio EPA, and they  
5 screwed us badly and are still doing it. So, we go to  
6 U.S. EPA, and I think we're going to have the same result.

7                   You folks have to go back. We have some  
8 young people here. We have some older people with a lot of  
9 experience. You have a duty and responsibility to the  
10 constituency of this community. We're coming to you, asking  
11 you to protect our kids and community. You want to spend  
12 30 million dollars? Fine, spend 60 million dollars, but do the  
13 job right; OK? These people are not idiots; they understand;  
14 they're American people who are seriously concerned and coming  
15 here at ten o'clock at night when they should be at home going  
16 to bed. It's your responsibility to analyze this. And in all  
17 frankness, folks, you don't know what's going on. You don't  
18 have answers for these people. That's not fair. They're  
19 entitled to have answers. Give us a break. We can't depend on  
20 our local officials. There's nobody protecting the people in  
21 our community, and you're the people that have to protect us.

22                   The main thing, also, we don't have anyone  
23 from the school board now. We don't have anyone fighting for  
24 our kids. I don't have any kids in the school, but I'm  
25 concerned about 800 kids at Union Township. Some provision

1 should be made in the Superfund Site as part of the expense to  
2 let them go to private schools or bus them to Hamilton or  
3 someplace else; put them there for a year or two until the  
4 thing is finished. That's the basic responsibility you have to  
5 our kids and people here. Don't let us down. You've got to  
6 help us.

7 MR. LAWRENCE BERKLEY: Lawrence Berkley,  
8 9972 Thornwood Court. I would like to just add to one of the  
9 issues that Carl raised about kids in the school. And that is  
10 that all of the risk assessments that we've heard tonight, as  
11 far as I can see, and having read through the Feasibility  
12 Study, the classical seventy-year dosage calculations -- what  
13 concerns me about this site are the short-term heavy doses as a  
14 result of an accidental fire or an explosion. And we have to  
15 take that seriously. And I know that EPA took it seriously,  
16 the risk of explosives being on this site; yet we see nothing  
17 in the Feasibility Study about those short-term, high exposure  
18 risks. And until we see some in-depth assessment of that, I  
19 don't think we should proceed forward with Option 5. Option 3  
20 is a much more safe approach if you consider the people in the  
21 immediate vicinity.

22 MR. BRUCE SANTORO: My name is  
23 Bruce Santoro, 6443 Locust Street. I've got concerns about the  
24 well water. We're on well water also, and I'd like to know by  
25 the next meeting when you'll be testing the water and if that

1 But in 1989 the Ohio EPA drew up the  
2 Capacity Insurance Plan. And that plan -- the reason for the  
3 Capacity Insurance Plan was under circular law each state was  
4 required to show that they had sufficient disposal capacity for  
5 their own hazardous wastes. In 1989 Ohio EPA showed that the  
6 State of Ohio had more than enough capacity for our own  
7 hazardous waste for the next twenty years. Now, we import  
8 waste. We're a net importer of waste by about -- I can't even  
9 remember anymore. But the thing that I think is real  
10 interesting here is in the past what I've asked about off-site  
11 treatment. Certainly in this state there has to be a hazardous  
12 waste disposal facility which is not located within 2000 feet  
13 of a school.

14 I've lost my train of thought. A double  
15 standard is here. It's OK to bring in hazardous waste from  
16 West Virginia, Pennsylvania, Michigan, Illinois, New Jersey,  
17 just about anywhere I'd like to bring waste in; but it's  
18 unacceptable to take Ohio waste, put it on the road and take it  
19 to a hazardous waste facility which is RCRA-licensed. If there  
20 are no RCRA-licensed facilities, I'd like to know that.

21 In theory -- and I agree with the theory of  
22 incineration, it's wonderful, it will destroy all of the  
23 organic compounds -- there are problems that happen with  
24 incineration, as they happen with any other kind of equipment,  
25 I suppose -- the theory sounds wonderful and the practice is

1 really abominable.

2                   We've got a state-of-the-art incinerator up  
3 the road with what I would assume to be the best available  
4 technology, otherwise EPA would never have approved of the  
5 application for that incinerator. And the fact is that Friday,  
6 last Friday, between 11:00 and 11:15 it's blowing out black  
7 smoke. And it happens often enough that we don't even bother  
8 to call the Air Pollution Control Agency because they come to  
9 the driveway and they don't know what they're talking about.

10                   I found a Complaint that I filed. It was  
11 an odor of burning plastics. I first checked my home to see  
12 whether there was electrical wiring that was overheating. I  
13 didn't know what the odor was. I still don't know what the  
14 odor was. My odor Complaint ended up in the Sewer File. So,  
15 even when you have local authorities and local oversight, you  
16 know, it's no help. In reality the air pollution control  
17 devices are constantly breaking down; and that's why I say to  
18 you you've not presented me with your proposed equipment so I  
19 can comment on them individually. And I think what EPA would  
20 like for me to do is run out and look at all the different  
21 technologies, all the different air-scrubbing devices, and then  
22 come back and tell you which one I prefer; and then you ignore  
23 my comments, anyway.

24                   But it's a fact this thing should not  
25 operate with any less than two scrubbing devices on it. I



1 truly am disgusted with this Feasibility Study. I don't think  
2 that I can express that enough. Something which I find  
3 interesting and maybe it has no bearing on the remediation of  
4 this site, EPA failed to characterize the waste. Is it  
5 hazardous waste? We think so. If it's a hazardous waste, then  
6 most definitely it should be stored and should have been stored  
7 in a RCRA-licensed facility under the guidelines of the  
8 Resource Conservation and Recovery Act. I think -- you know,  
9 I'm hoping at some point EPA will characterize the waste and  
10 I'm sure this will be something addressed in the design stage  
11 as well as all the other comments. I would really like to see  
12 EPA go back, fill in the blanks on this Feasibility Study, give  
13 the public the opportunity to comment on the Feasibility Study,  
14 and then allow us to comment on the proposed plan. Give us  
15 what you're basing your plan on, give us that information so  
16 that we can make an educated either approval or criticism of  
17 your plan.

18 Thank you for listening.

19 MS. JACKIE GORDON: My name is  
20 Jackie Gordon and I live at 9842 Talltimber Drive. I'm not  
21 nearly as informed as some of the people seem to be, but it  
22 seems if we excavate this ground and then incinerate, we're  
23 going to have airborne particles, contaminated particles, in  
24 our air. As far as I know, nobody has given us any indication  
25 of how far these contaminants will travel, if they're going to

1 settle in the ground, in the water. We're being told that the  
2 ground water is not going to be polluted, but this stuff has to  
3 come down somewhere. Is it heavy? Is it going to land close  
4 to the facility? Is it going to travel? I don't know.

5 I also know from my own business background  
6 that the State tends to promulgate rules and regulations and  
7 provide inspectors for things, and, you know, there aren't  
8 enough inspectors. They don't show up. They're supposed to  
9 come annually at my husband's business, and you see them twice  
10 in a fifteen, sixteen-year period. I don't trust anybody  
11 policing this facility. I'm not sure how I think it should be  
12 handled, but I have serious concerns about contaminants in the  
13 air.

14 CARL MORGENSTERN: Carl Morgenstern,  
15 5759 Woodbridge, West Chester. We're in a curious predicament  
16 here. We don't have any public officials that are fighting for  
17 the people. You have seen a lot of people talk here; and  
18 they're very bright, smart, intelligent people, in spite of  
19 what everyone else says of all the people who come here. They  
20 ask simple questions. And in all honesty, you can't answer  
21 them. That's not the way to conduct a public hearing. We  
22 can't go -- the people here cannot go to our trustees; they're  
23 not concerned with helping. We can't go to our commissioners;  
24 they're all developers. We can't go to Governor Voinovich;  
25 he's not an environmentalist. We have no place to turn. If I

1 will be on a regular basis, the date that the City water will  
2 be hooked up? And also will you be taking steps to provide  
3 bottled water for the community, for the citizens of the  
4 community who are on well water right now? And also when is  
5 the next meeting so that we can know when this is going to take  
6 place?

7 MS. KATHERINE STOKER: My name is  
8 Katherine Stoker, 6979 Hidden Ridge. I would like to say that  
9 I am very concerned, and I hope that you will be concerned  
10 about the lack of confidence which is being expressed here. We  
11 went through a very similar routine with the hearings from the  
12 Ohio EPA for the BFI's infectious medical waste permit. We had  
13 the experience of sitting there -- hundreds of people turned  
14 out, voiced their concerns; the members of CLEAN got up and  
15 cited chapter and verse from Ohio Revised Code. And it became  
16 apparent as months went by that the whole purpose of the  
17 hearings was for the people to come down, voice their concerns  
18 so that they could feel as though somebody listened; but no  
19 effect was made on the decision. It became apparent that all  
20 decisions were made beforehand and out of sight and people's  
21 comments carried no weight.

22 As an example of that I would like to use  
23 Mr. Silverman's -- Right, Fred Silverman? Fred, what's your  
24 last name?

25 MR. FRED PARKER: Parker.

1 MS. KATHERINE STOKER: I'm sorry -- Fred's  
2 comments, that, because in their sample excavations and borings  
3 they had found no munitions, so therefore they decided there  
4 were no munitions and totally disregarded it. That's  
5 frightening to me. There are people in this community who know  
6 far more what is in that lagoon than you do. Now, these people  
7 have come, members of CLEAN, and privately expressed these  
8 concerns and actions of things that they have firsthand  
9 knowledge of but are afraid because of personal reasons or  
10 financial reasons to express them publicly and admit to them.  
11 And because it didn't fit in, apparently, with your agenda, it  
12 appears to be getting sloughed off. The problem is you people  
13 are in Chicago; am I right? We're right here. If something  
14 blows up, you guys are in Chicago. We're playing You Bet Your  
15 Life right here in West Chester.

16 UNIDENTIFIED SPEAKER: Chicago is not such  
17 a great place to me, either.

18 MS. KATHERINE STOKER: We need to feel your  
19 concern. We went through this whole permitting and hearing and  
20 exercises before and discovered that county, state and federal  
21 laws were totally disregarded with impunity. We have the  
22 incinerator down the road, "State-of-the-art, not to worry."  
23 It's breaking down all the time. It is constantly in  
24 violation, regularly in violation, direct violation. But does  
25 anything still happen? They're still burning the stuff,

1 emitting mercury, and it's jogging right along. Nobody is  
2 protecting us there. There are laws that say that place should  
3 shut down. When it is these kind of violations you say, "Don't  
4 worry. We have laws. We have permits. We have safety  
5 procedures. We have regulations." I'm sorry, we have seen the  
6 U.S. and the State EPA regulations at work and it's no  
7 regulation.

8                   So, there is a real problem of trust here.  
9 We want to trust you, but right now we don't want to bet the  
10 lives of our children that we can trust you. We need something  
11 more from you, not just from you, but from the regulatory  
12 agencies as a whole. We need to have you -- and when I say  
13 "you", I'm talking about the U.S. EPA; I'm talking about the  
14 State EPA -- enforce your laws. Don't come to us and say  
15 "trust us", when we can see what you're not doing down the  
16 street that you should be doing. We can't trust you. We would  
17 like to. We want to. We need to. But many of us don't  
18 because we have the evidence right down the street that we  
19 cannot. We cannot trust our local trustees to help us out. We  
20 can't trust our County Commissioners. Let's see a show of  
21 hands of elected officials here in the room? Elected  
22 officials? Elected officials? Dick Aldridge promised to  
23 insure a safe environment in his acceptance speech in the  
24 paper. Where is Dick Aldridge?

25                   Members of CLEAN? How about members of

1 CLEAN who have been working? We have a real credibility gap  
2 here. And my heart is not warmed when I hear Fred say, "Well,  
3 OK, a couple of flame throwers." But there weren't any  
4 munitions there? I'm worried. My child doesn't go to Union,  
5 but if he did I'd be making plans to put him someplace else.  
6 And I would like to see you include in your plans either the  
7 funding of children to the local parochial schools or funding  
8 for Butler buildings or other buildings to move those kids out  
9 of that Union area. They were building a school anyway; move  
10 those children into some other area. Because I don't want to  
11 bet the lives of the children of this community that there are  
12 no nerve gases or explosives; and they are too precious.

13 And like I said, we have a real credibility  
14 problem, and I'm worried and I think a lot of other people are  
15 worried. And I don't hear from you any apparent realization  
16 that this concern is here.

17 MR. MARK LEEHART: My name is Mark Leehart.  
18 Up to May 1st I was the Site Coordinator for Ohio EPA working  
19 on the Skinner Site. I currently work outside the Agency with  
20 a private consulting firm; and I'm actually very sorry I was  
21 not able to stand up here to give you some background or  
22 information from the State of Ohio's point of view.

23 From my personal experience working with  
24 the site -- You guys had a lot of questions that may or may not  
25 have been answered. And from my own personal viewpoint of

1 working on the site and knowing that -- at least on the surface  
2 I've been told that CLEAN at least has a little bit of faith in  
3 me, I can say that I personally believe this remedy is a very  
4 good one, notwithstanding the fact that I did work on it. Each  
5 of the remedies that you've heard or were informed about with  
6 the exception of the No Action Alternative -- each of those  
7 remedies were looked at based on risk. Even though they  
8 weren't looked at as far as a single Risk Assessment, those  
9 alternatives were each designed to meet the one in one million  
10 criteria for the safe level that the State and the Federal  
11 Government considers adequate as far as cancer risk. Each of  
12 those alternatives, whether any one of them would be  
13 chosen -- each of those would meet that criteria. It's a  
14 matter of degree afterwards which of those alternatives is  
15 going to be better. Whether you just cap it, you're still  
16 going to meet the one in one million criteria. If you  
17 incinerate it, it's going to be better than that because you're  
18 going to be removing a major source of the problem; and instead  
19 of your children's children having to worry about some ground  
20 water getting out of the landfill which was only capped and the  
21 cap was breached and now materials are again moving to Mill  
22 Creek, maybe by incinerating the vast majority of that material  
23 where we know it's located at we can say that several hundreds  
24 of years from now there may be a problem, but by that time, who  
25 knows, maybe the stuff will have naturally biodegraded or

1 whatever.

2 But a lot of questions have been raised on  
3 this issue of incineration. A lot of that stuff is not that  
4 finely detailed as far as the design of the system. We know  
5 the system is going to work. We know what the chemicals are  
6 out there, we know the system will handle those chemicals. We  
7 know what things need to be added to the incinerator as far as,  
8 yes, we know we're going to need scrubbers or some type of air  
9 emissions control. We know there will be metal left over  
10 afterwards in the ash and those levels will be solidified  
11 afterwards and put back into the landfill where they will  
12 become immobile. Some metal will volatilize and we need to  
13 capture those.

14 There's a lot of questions to answer. And  
15 I would encourage everyone here to look to the details that  
16 need to be resolved on this Alternative and understand that  
17 while we can't -- not "we" anymore -- they can't give you all  
18 the answers that you're really looking for at this point in  
19 time, please understand that out of everything that we look at,  
20 while it wasn't finely detailed in the Feasibility Study all  
21 the pros and cons of each of the technologies we have -- we  
22 could have looked at -- or each of the technologies we could  
23 have put in series to clean-up the site, understand that  
24 incineration is the best alternative with respect to removing  
25 the most contamination possible and making it safer for you



1 guys down the road.

2 MS. DOVE LONG: My name is Dove Long,  
3 6354 Melrose Way. I'm concerned about the confidence the EPA  
4 is using in saying that it's certain that the incinerator will  
5 take care of the problem, will take care of the compounds that  
6 are in there. If they found flame throwers -- they won't even  
7 tell us where -- they don't know what's in there. If that's  
8 the truth what's in there, fine. But they don't know what's in  
9 there. So, until they do more probing and really understand  
10 what's in there, I don't think that any solution can be termed  
11 truly feasible.

12 Also, this seems to be our last chance to  
13 say what we think about this. We've come up with all these  
14 questions tonight and they're telling us -- this nice gentleman  
15 told us that we should be concerned, we should continue to look  
16 into how they answer these questions in the design review or  
17 design study, whatever. If we're not going to have a chance to  
18 respond to those, it doesn't make any difference. We need to  
19 have an opportunity to say, "Hey, this doesn't sound right to  
20 me. I've seen questions on this." If this is our last chance,  
21 we're not going to have it. Please give us another chance.

22 Thank you.

23 MS. CHERYL ALLEN: Anyone else?

24 MR. DAVID GULLY: My name is David Gully,  
25 7817 Plantation Drive. I would agree with the last lady that

1 spoke. I would say that because of the questions that weren't  
2 answered this evening, it would be useful to the community if  
3 we could get answers to some of these questions and then have  
4 another opportunity to make comment on them.

5                   One of the concerns I have is that since  
6 you don't really know what's in the subsurface of the site, you  
7 start excavating in there, if there is an incident on the site,  
8 the Township is going to be the first responder to the  
9 incident, whether it's an explosion or a fire or a cave-in or  
10 something like that. And I'm real reluctant to send our people  
11 in there if we don't know what's there, if you don't know  
12 what's there.

13                   Additionally, I wonder if -- There's no  
14 fire hydrants that I know of on the site. If there is a fire  
15 there -- you're introducing fire to these. This is an  
16 incinerator -- if there is a fire with the incinerator or the  
17 soil catches on fire, how is that going to be dealt with? I  
18 don't see where that's been considered at all. I'd certainly  
19 like to see these questions answered, give us a chance to  
20 evaluate the answers to the questions, and then have another  
21 opportunity for public comment.

22                   MS. CHERYL ALLEN: Any more comments?

23                   MR. MARCE OSNER: Marce Osner,  
24 8700 Cincinnati-Dayton Road. I am closer to the site than the  
25 school. I don't know what all the answers are, but I would

1 hope you have a copy of the 1976 court settlement that was made  
2 in Hamilton as giving details of what's in that. There is  
3 facts and figures of what's in there.

4 I disagree -- or I don't say I  
5 disagree -- I have a little different opinion than what most  
6 people have here. I see there is no trust of the EPA for the  
7 past things and there probably never will be. And I don't care  
8 what answers you bring back here to certain questions. Some of  
9 these people will never trust you anyway, I'm sure of that.  
10 But my thinking is this. According to the Court suit in 1976  
11 it went into detail as to some of the things that are in there  
12 and it will tell you in there that certain things in there  
13 apparently are segregated at this time. And the place where  
14 they become dangerous is when they get together and mix and  
15 form something else.

16 Now, if you're going to do anything with  
17 it, I think it has to be done pretty quick. You take 1976,  
18 that's sixteen years ago. The drums are going to be mighty  
19 thin or else they're already ruptured in that ground. That  
20 lagoon is not far from the East Fork. It sits up the hill from  
21 the East Fork. Now, if that's going to get down into the water  
22 and come down to East Fork, that can go clear on down and do a  
23 lot of contamination.

24 Also in that 1976 court case it told in  
25 there about the same things you people said here, about

1 possibility of cancer causing from that. Now, I've been there  
2 all that time right next to it and I'm not too happy that it's  
3 there. I'm very unhappy it's there. But I'm also wondering  
4 which is the biggest chance, to keep continually delaying the  
5 operation, or getting in there and taking the chance and  
6 getting it out of there? I think people are going to have to  
7 realize -- or at least I realize that -- I don't care if they  
8 wait ten years for you people to come back with answers, you're  
9 not going to come back with all the answers and there's no way  
10 that anybody can guarantee us of everything that you're going  
11 to find in there and all the problems they're going to hit.  
12 And I don't care if they go in there and do more checking,  
13 there's things that might be in there that you won't find.

14                   And if the people here are wanting an  
15 ironclad decision of what's going to happen and have all the  
16 answers from you people, then you better just leave it alone  
17 and gamble down the road. But if anyone has ever went to any  
18 of these meetings put on by the Water Conservation Agency -- I  
19 believe that's the name of it -- out of Columbus -- I attended  
20 one in Cincinnati -- of all the wasteland in this country, due  
21 to the fact that these type things are sitting there and  
22 nothing done about them, which is the greater risk, that we  
23 wait to try to get ironclad answers to every question so we  
24 make everybody happy, or we sit there and let it erode and  
25 something develop out of it that you may not be able to stop

1 once it starts? And I would certainly think that a lot of  
2 thought ought to be given by everybody as to what we should do  
3 with it and naturally convert all the mistrust here.

4                   And I can't deny some of it is valid, but I  
5 would say we got to get our heads together real quick, we  
6 either do or don't, because those barrels are probably ruptured  
7 by now and who knows what they're getting ready to mix together  
8 and get into that water stream. Once it gets into the water  
9 stream it's ruined, there's no way you people or anybody else  
10 can get in the ground. Look at all the water that lays there.  
11 If there's any possibility of that going on now and getting  
12 into the big water aquifer down here -- there might not be any  
13 chance of that, I don't know. I don't know that much about the  
14 ground. If you're not aware, the biggest water aquifer in the  
15 State of Ohio lays right down here off of Windisch Road. Now,  
16 if for any reason something like this would ever get that far  
17 and contaminate that, then you really got problems, you will  
18 destroy one of the biggest water reservoirs in Southwest Ohio.

19                   As I say, that may not be possible, I don't  
20 know, but it's a potential, and all it would take was a little  
21 earthquake or something to crack the ground. And I recall when  
22 they put I-75 in and I had a well in my side yard; they made  
23 three blasts on the hill, and my well went dry. So, no one can  
24 tell me that a few rumbles of the earth can't change the flow  
25 of the water in a darn big hurry. If something like that ever

1 happens or something out of there gets into that East Fork,  
2 we've got more problems than we're talking about here tonight.

3                   So, I don't know what the answer is, but I  
4 think people are going to have to realize if they're ever going  
5 into that thing, there's chances. And if there are anybody  
6 sitting here tonight that think that you people are going to  
7 give us a 100 per cent guarantee of something, you might as  
8 well forget it because it's not possible; you're going into  
9 some unknowns, and when you go into unknowns you have potential  
10 of problems that you don't know what's in there. And I don't  
11 care how much precaution we take or what, there's no way to  
12 guarantee to the people in this room that there's 100 per cent  
13 safety. So, I would say to the people that are in here that  
14 are looking for 100 per cent safety, it's not going to be. And  
15 as I say, I'm closer to that -- I'm the closest house, I think,  
16 to that site and I am willing to take my chances, that it ought  
17 to be gotten out of there for the good of the community.

18                   And I would close.

19                   MR. CARL MORGENSTERN: Why didn't you stop  
20 Skinner from putting it in there?

21                   MR. MARCE OSNER: Let me tell you,  
22 Mr. Morgenstern, I fought that god damn thing from the day they  
23 started putting it in there and I was in Court more than  
24 anybody else in Union Township. And at the time that we went  
25 in there we couldn't stop it. And I can tell you on the

1 outside why it wasn't stopped.

2 MR. CARL MORGENSTERN: OK. I checked the  
3 1976 --

4 MR. MARCE OSNER: Don't tell me that no one  
5 fought that because there was reasons that it wasn't stopped  
6 and I know what they were.

7 MS. SHIRLEY FARMER: Shirley Farmer,  
8 7249 Hamilton-Mason Road. This happened sixteen years ago. I  
9 know it was reported numerous times to you people many, many  
10 years ago. Isn't it sad that we are here sixteen years later;  
11 you're worrying about our trust in the EPA? This is why  
12 there's no trust. It was reported. We wouldn't have that much  
13 contamination there if they had stopped it. We told them, but  
14 nobody cared; and now we'll probably come back many years later  
15 with BFI with the same problem.

16 MS. CHERYL ALLEN: Anyone else? I guess  
17 we'll close here. We'll be around to answer questions. And I  
18 will be letting you all know when we'll be having the  
19 incineration workshop. We'll be notifying you as to when the  
20 incineration workshop will be within the next couple of weeks.

21

22 (PUBLIC MEETING CONCLUDED AT 10:10 P.M.)

23

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## C E R T I F I C A T E

I, Kelly A. Graff, a free-lance court reporter  
in Hamilton, Ohio, do hereby certify that the preceding  
94 pages were recorded by me in stenotypy and transcribed into  
typewriting and are a true and accurate copy of my stenotypy  
notes.



Commission Expires 12/1/94